THE UNIVERSITY OF NORTH CAROLINA

THE ONE HUNDRED AND
TWENTY-SIXTH SESSION

THE CATALOGUE

1920-1921

1920

JANUARY						
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CALENDAR

1920	
June 13-16	*Sunday to Wednesday.* Commencement.
June 22-August 6	Summer School for Teachers.
June 14-August 20	Summer Law School.
September 15-18	*Wednesday to Saturday.* Examinations for Removal of Conditions.
September 21-22	*Tuesday and Wednesday.* Entrance Examinations. Registration.
September 23	*Thursday.* Fall Quarter begins.
October 12	*Tuesday.* University Day.
November 25	Thanksgiving Day.
December 22	*Wednesday.* Fall Quarter ends. Christmas Recess begins (1:30).
1921	
January 5	*Wednesday.* Winter Quarter begins.
March 26	Winter Quarter ends.
March 27-April 3	Easter Recess.
April 4	Spring Quarter begins.
May 14	Selection of Commencement Orators.
June 6-10	Final Examinations.
June 12	*Sunday.* Baccalaureate Sermon. Sermon before Y. M. C. A.
June 13	*Monday.* Senior Class Day. Inter-Society Banquet and Reunions.
June 14	*Tuesday.* Alumni Day. Meeting of the Board of Trustees. Inter-Society Debate.
June 15	*Wednesday.* Commencement Day. Summer Vacation begins.
September 14-17	*Wednesday to Saturday.* Examinations for Removal of Conditions.

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PART ONE—OFFICERS

BOARD OF TRUSTEES

OFFICERS OF ADMINISTRATION

OFFICERS OF INSTRUCTION

FACULTY COMMITTEES

TRUSTEES

THOMAS WALTER BICKETT, Governor, President *ex officio* of the Board of Trustees.

EUGENE CLYDE BROOKS, Superintendent of Public Instruction, member *ex officio* of the Board of Trustees.

ROBERT D. W. CONNOR, Secretary.

MEMBERS OF THE BOARD

1921*

Thomas Hall Battle	Nash
James McEntire Carson	Rutherford
Frederick Jackson Coxe	Anson
Willie Reid Dalton	Rockingham
Claudius Dockery	Montgomery
Rufus Alexander Doughton	Alleghany
William Nash Everett	Richmond
Ephraim Lash Gaither	Davie
Thomas Jackson Gold	Guilford
James Alexander Gray	Forsyth
John Sprunt Hill	Durham
Charles Andrew Jonas	Lincoln
Josiah Crudup Kittrell	Vance
Julian Smith Mann	Hyde
George Badger McLeod	Robeson
John Henry McMullan, Jr	Chowan
Haywood Parker	Buncombe
John Ledgerwood Patterson	Halifax
John Henry Pearson, Jr	Burke
Willie Mangum Person	Franklin
Augustus Hobson Price	Rowan
James Dick Proctor	Robeson
Alfred Moore Scales	Guilford
D. Matt Thompson	Iredell
Clement Gillespie Wright	Guilford

*The legal term of office expires November 30th of the year indicated.

1923

KELLY EDWIN BENNETT	Swain
THOMAS CONTEE BOWIE	Ashe
CHASE BRENIZER	Mecklenburg
BENNEHAN CAMERON	Durham
ROBERT D. W. CONNOR	Wake
JULIUS FLETCHER DUNCAN	Carteret
ADOLPHUS HILL ELLER	Forsyth
JOHN WILLIAM FRIES	Forsyth
GEORGE KENNETH GRANTHAM	Harnett
CHARLES FELIX HARVEY	Lenoir
WILLIAM LANIER HILL	Duplin
GEORGE ALLAN HOLDERNESS	Edgecombe
SAMUEL RICHARD HOYLE	Lee
GRAHAM KENAN‡	New Hanover
JOHN C. LAMB	Martin
RICHARD HENRY LEWIS	Wake
ADDISON GOODLOE MANGUM	Gaston
JAMES SMITH MANNING	Wake
JOHN ARCHIBALD PARKER	Mecklenburg
GEORGE MOORE PRICHARD	Madison
RORERT LEE SMITH	Stanly
WALTER FRANK TAYLOR	Wayne
THOMAS DAVIS WARREN	Craven
JOHN KENYON WILSON	Pasquotank
STANLEY WINBORNE	Hertford

1925

ERIC ALONZO ABERNETHY†	Orange
DAVID COLIN BARNES	Hertford
JOHN GRAY BLOUNT‡	Beaufort
PERRIN BUSBEE	Wake
JULIAN SHAKESPEARE CARR	Durham
JOHN SOMERVILLE CUNINGHAM	Durham
JOSEPHUS DANIELS	Wake
WILLIAM DUNN, JR.	Craven
AUGUSTUS WASHINGTON GRAHAM	Granville
GEORGE CHANCELLOR GREEN	Halifax
HARRY PERCY GRIER	Iredell
JOHN BRYAN GRIMES	Pitt
LUTHER THOMPSON HARTSELL	Cabarrus

†Resigned.
‡Died.

RUFUS LAFAYETTE HAYMORE ..... Surry
JOHN WETMORE HINSDALE, JR. ..... Wake
FRANKLIN P. HOBGOOD ..... Granville
WILLIAM STAMPS HOWARD ..... Edgecombe
ALEXANDER LONG JAMES ..... Scotland
PAUL JONES LONG ..... Northampton
JOHN HALL MANNING ..... Lenoir
ANGUS WILTON MCLEAN ..... Robeson
GEORGE MCNEILL ROSE ..... Cumberland
JAMES SPRUNT ..... New Hanover
GEORGE STEPHENS ..... Mecklenburg
JULIEN KNOX WARREN ..... Jones

1927

BENJAMIN LEONIDAS BANKS ..... Gates
VICTOR SILAS BRYANT ..... Durham
WILLIAM HYSLOP SUMNER BURGWYN, JR. ..... Northampton
WILLIAM PRESTON BYNUM, JR. ..... Guilford
ISAAC PETER DAVIS ..... Dare
JOHN WASHINGTON GRAHAM ..... Orange
MARMADUKE JONES HAWKINS ..... Warren
ROBERT STUART HUTCHINSON ..... Mecklenburg
JAMES LEE HYATT ..... Yancey
FRANK LINNEY ..... Watauga
WALTER MURPHY ..... Rowan
HENRY ALLISON PAGE ..... Moore
ROBERT BURWELL REDWINE ..... Union
ALEXANDER ABEL SHUFORD, JR. ..... Catawba
CHARLES LEE SMITH ..... Wake
EUGENE JACKSON TUCKER ..... Person
ZEB VANCE WALSER ..... Davidson
LESLIE WEIL ..... Wayne
CHARLES WHEDBEE ..... Perquimans
WILLIAM THORNTON WHITSETT ..... Guilford
JOHN NESTOR WILSON ..... Guilford
FRANCIS DONNELL WINSTON ..... Bertie
ALBERT EDGAR WOLTZ ..... Gaston
GRAHAM WOODARD ..... Wilson
CHARLES WILLIAMS WORTH ..... New Hanover

COMMITTEES OF THE TRUSTEES

Executive Committee

THOMAS W. BICKETT, *ex officio, Chairman*

**1920:* V. S. BRYANT, W. P. BYNUM, J. S. CARR, JOSEPHUS DANIELS, R. D. W. CONNOR.

**1921:* E. C. BROOKS, CLAUDIUS DOCKERY, J. W. GRAHAM, J. B. GRIMES, WALTER MURPHY.

**1922:* R. H. LEWIS, C. L. SMITH, CHARLES WHEDBEE, J. S. MANNING, F. D. WINSTON.

Visiting Committee

For 1918-1920: J. C. KITTRELL, C. G. WRIGHT.

For 1919-1921: Z. V. WALSER, STANLEY WINBORNE.

For 1920-1922: W. M. PERSON, THOMAS H. BATTLE.

*Term expires.

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

Harry Woodburn Chase, Ph.D., President.

Walter Dallam Toy, M.A., Secretary of the Faculty.

Charles Thomas Woollen, Business Manager.

Julius Algernon Warren, Treasurer and Bursar.

Thomas James Wilson, Jr., Ph.D., Registrar.

Frank Porter Graham, M.A., Dean of Students.

Eric Alonzo Abernethy, M.D., University Physician.

THE COLLEGES AND SCHOOLS

George Howe, Ph.D., Dean of the College of Liberal Arts.

Andrew Henry Patterson, A.M., Dean of the School of Applied Science.

Marcus Cicero Stephens Noble, Dean of the School of Education.

Dudley deWitt Carroll, M.A., Acting Dean of the School of Commerce.

Charles Lee Raper, Ph.D., Dean of the Graduate School.

Lucius Polk McGehee, A.B., Dean of the School of Law.

Isaac Hall Manning, M.D., Dean of the School of Medicine.

Edward Vernon Howell, A.B., Ph.G., Dean of the School of Pharmacy.

Mrs. Marvin Hendrix Stacy, Adviser to Women.

THE LIBRARY

Louis Round Wilson, Ph.D., Librarian.

Charles Melville Baker, A.M., B.L.S., Assistant Librarian.

Cornelia Spencer Love, A.B., B.L.S., In charge of Orders and Accessions.

Rachel Agnes Harris, Ph.M., B.L.S., Cataloger.

Mary Lindsay Thornton, In charge of the North Carolina Collection.

Alma Irene Stone, A.B., In charge of Periodicals and Bindings.

Elizabeth Atkinson Lay, A.B., Student Assistant.

Walter Reece Berryhill, Student Assistant.
John Wiley Coker, Student Assistant.
Charles Wiley Phillips, Student Assistant.
Wilbur White Stout, Student Assistant.
Leo Deaton Summey, Student Assistant.
Luther Stevens Smith, Student Assistant.

THE BUREAU OF EXTENSION

Louis Round Wilson, Ph.D., Director.
Edgar Ralph Rankin, A.M., Assistant Director.

THE GYMNASIUM

Robert Baker Lawson, M.D., Director.

YOUNG MEN'S CHRISTIAN ASSOCIATION

Robert William Wunsch, A.B., General Secretary.

OFFICERS OF INSTRUCTION

HARRY WOODBURN CHASE, Ph.D., President.

A.B., Dartmouth College, 1904; A.M., Dartmouth College, 1908; Director of the Clinic for Subnormal Children, Clark University, 1909-1910; Ph.D., *ibid.*, 1910; Professor of Psychology, University of North Carolina, 1910-1919; Acting Dean of the College of Liberal Arts, *ibid.*, October, 1918-January, 1919; Chairman of the Faculty, *ibid.*, January, 1919-June 1919; President, *ibid.*, 1919—.

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., Kenan Professor of Chemistry.

Student, University of Virginia, 1874-1879; University of Bonn, 1879-1880; A.M., Ph.D., University of Goettingen, 1881; Student University of Berlin, 1889; LL.D., University of Pennsylvania, 1901; D.Sc., Lafayette College, 1902; LL.D., University of South Carolina, 1905; LL.D., University of Alabama, 1906; LL.D., Jefferson Medical College, 1913; Professor of Chemistry, University of North Carolina, 1880-1918; President, *ibid.*, 1900-1914; Kenan Professor of Chemistry, *ibid.*, 1918—.

WALTER DALLAM TOY, M.A., Professor of the Germanic Languages and Literatures.

M.A., University of Virginia, 1882; Student, University of Leipzig, 1882-1883; University of Berlin, 1883-1885; College de France, 1885; Professor of Germanic Languages and Literatures. University of North Carolina, 1885—; Student, University of Berlin, 1910-1911—.

WILLIAM CAIN, A.M., LL.D., Kenan Professor of Mathematics.

A.M., North Carolina Military Polytechnic Institute, 1866; Professor of Mathematics and Engineering, Carolina Military Institute, 1874-1879; Professor of Mathematics and Engineering, South Carolina Military Academy, 1882-1889; Professor of Mathematics, University of North Carolina, 1889-1918; Kenan Professor of Mathematics, *ibid.*, 1918—; LL.D., The University of South Carolina, 1916.

HENRY HORACE WILLIAMS, A.M., B.D., Professor of Philosophy.

A.B., A.M., University of North Carolina, 1883 Professor of Greek and German, Trinity College (N. C.) 1885; B.D., Yale University,

1888; Fellow, Harvard University, 1889 Professor of Philosophy, University of North Carolina, 1890—.

Henry VanPeters Wilson, Ph.D., Kenan Professor of Zoology.
A.B., Johns Hopkins University, 1883; Fellow, *ibid.*, 1887-1889; Ph.D., *ibid.*, 1888; Professor of Biology, University of North Carolina, 1891-1904; Student, University of Berlin, 1902-1903; Professor of Zoology, University of North Carolina, 1904-1918; Kenan Professor of Zoology, *ibid.*, 1918—.

Collier Cobb, A.M., D.Sc., Professor of Geology and Mineralogy.
A. B., Harvard University, 1889; A.M., *ibid.*, 1894; Assistant in Geology, *ibid.*, 1888-1890; Instructor in Geology, Massachusetts Institute of Technology, 1890-1892; Instructor in Geology, Harvard Summer School, 1891; Assistant Professor of Geology, University of North Carolina, 1892-1893; Professor of Geology and Mineralogy, *ibid.*, 1893—; D.Sc., Wake Forest College, 1917.

Charles Staples Mangum, A.B., M.D., Professor of Anatomy.
A.B., University of North Carolina, 1891; M.D., Jefferson Medical College, 1894; Assistant and Demonstrator, *ibid.*, 1894-1895; Graduate Student, University of Chicago, 1906; Professor of Anatomy, University of North Carolina, 1896—; Student, Harvard University, 1912, 1913.

Edward Vernon Howell, A.B., Ph.G., Professor of Pharmacy.
A.B., Wake Forest College, 1892; Ph.G., Philadelphia College of Pharmacy, 1894; Professor of Pharmacy and Dean of the School of Pharmacy, University of North Carolina, 1897—.

Marcus Cicero Stephens Noble, Professor of Pedagogy.
Student, Davidson College and University of North Carolina; Commandant, Bingham School, 1880-1883; Superintendent of Schools, Wilmington, N. C., 1883-1898; Professor of Pedagogy, University of North Carolina, 1898—; Dean of the School of Education, *ibid.*, 1913—.

Isaac Hall Manning, M.D., Professor of Physiology.
Student, University of North Carolina, 1882-1886; Assistant in Chemistry, *ibid.*, 1886; M.D., Long Island College of Medicine, 1897; Graduate Student, University of Chicago, 1901, 1903; Harvard University, 1902, 1906; Professor of Physiology, University of North Carolina, 1901—; Dean of the School of Medicine, *ibid.*, 1905—.

GEORGE HOWE, Ph.D., Professor of the Latin Language and Literature.

A.B., Princeton University, 1897; A.M., Ph.D., University of Halle, 1903; Student, Oxford University, 1903; Professor of Latin Language and Literature, University of North Carolina, 1903—; Student, American School of Classical Studies at Rome, 1912-1913; Dean of the College of Liberal Arts, University of North Carolina, 1919—.

JOSEPH HYDE PRATT, Ph.D., Professor of Economic Geology.

Ph.B., Yale University; 1893; Assistant in Chemistry, *ibid.*, 1894; Assistant in Mining, *ibid.*, 1895; Instructor in Mining, Harvard Summer School, 1895; Ph.D., Yale University, 1896; Instructor in Mineralogy, *ibid.*, 1896-1897; Lecturer on Economic Geology, University of North Carolina, 1899-1904; Professor of Economic Geology, *ibid.*, 1904—; State Mineralogist, 1897-1906; Colonel 105 Engineers, 30th Division, A. E. F.; State Geologist, 1906—.

NATHAN WILSON WALKER, A.B., Professor of Secondary Education.

A.B., University of North Carolina, 1903; Superintendent of Schools at Ashboro, N. C., 1903-1905; Professor of Secondary Education, University of North Carolina, 1905—; State Inspector of Public High Schools, 1905—.

WILLIAM DEBERNIERE MACNIDER, M.D., Kenan Professor of Pharmacology.

Assistant in Biology, University of North Carolina, 1899-1900; Assistant in Anatomy, *ibid.*, 1900-1901; M.D., *ibid.*, 1903; Student, University of Chicago, 1906, 1907, 1908; Professor of Pharmacology, University of North Carolina, 1905-1918; Kenan Professor of Pharmacology, *ibid.*, 1918—.

CHARLES LEE RAPER, Ph.D., LL.D., Professor of Economics.

A.B., Trinity College (N. C.), 1892; Instructor in Greek and Latin, *ibid.*, 1892-1893; Professor of Latin Greensboro Female College, 1894-1898; Fellow in History, Columbia University, 1899-1900; Lecturer in History, *ibid.*, 1900-1901; Ph.D., *ibid.*, 1902; Associate Professor of Economics and History, University of North Carolina, 1901-1906; Professor of Economics, *ibid.*, 1906—; Dean of Graduate School, *ibid.*, 1909—. LL.D., Lenoir College, 1917.

William Chambers Coker, Ph.D., Professor of Botany.

B.S., University of South Carolina, 1894; Ph.D., Johns Hopkins University, 1901; Student, University of Bonn, 1901-1902; Associate Professor of Botany, University of North Carolina, 1902-1907; Professor of Botany, *ibid.*, 1908—.

Archibald Henderson, Ph.D., D.C.L., Professor of Pure Mathematics.

A.B., University of North Carolina, 1898; A.M., *ibid.*, 1899; Instructor in Mathematics, *ibid.*, 1898-1902; Student, University of Chicago, 1901; Ph.D., University of North Carolina, 1902; Fellow and Tutor in Mathematics, University College and University of Chicago, 1902-1903; Associate Professor of Mathematics University of North Carolina, 1902-1908; Professor of Pure Mathematics *ibid.*, 1908—; Student Cambridge University, University of Berlin the Sorbonne, 1910-1911; Ph.D., University of Chicago, 1915; D.C.L., The University of the South, 1917.

Joseph Gregoire deRoulhac Hamilton, Ph.D., Alumni Professor of History.

M.A., University of the South, 1900; Ph.D., Columbia University, 1906; Associate Professor of History, University of North Carolina, 1906-1908; Professor of History, *ibid.*, 1908—; District Director War Issues Course, Committee on Education and Special Training, War Plans Division General Staff, 1918; Lecturer Army Educational Corps, A. E. F., 1919.

Andrew Henry Patterson, A.M., Professor of Physics.

Ph.B., B.E., University of North Carolina, 1891; A.B., Harvard University, 1892; A.M., *ibid.*, 1893; Instructor in Physics, University of Georgia, 1894-1897. Adjunct Professor of Physics and Electrical Engineering, *ibid.*, 1897-1898; Professor of Physics and Astronomy, *ibid.*, 1898-1908; Student, University of Berlin and Charlottenburg Technische Hochschule, 1905-1906; Student, Cambridge University, 1906; Professor of Physics, University of North Carolina, 1908—; Dean of the School of Applied Science, *ibid.*, 1911—.

Henry McGilbert Wagstaff, Ph.D., Professor of History.

Ph.B., University of North Carolina, 1899; Professor of Mathematics, Rutherford College (N. C.), 1900-1902; Ph.D., Johns Hopkins University, 1906; Acting Professor of Economics and His-

tory, Alleghany College, 1906-1907; Associate Professor of History, University of North Carolina, 1907-1909; Professor of History, *ibid.*, 1909—.

PATRICK HENRY WINSTON, Professor of Law.

Student, University of Texas, 1897-1898; University of North Carolina, 1899-1900; Graduate, United States Military Academy, 1905; Student, University of North Carolina School of Law, 1905; Professor of Law, *ibid.*, 1909—. Student, University of Michigan, 1910; Major, J. A. G. R. C. Division, J. A., 83 Division, N. A.

WILLIAM MORTON DEY, Ph.D., Professor of the Romance Languages and Literatures.

B.A., M.A., University of Virginia, 1902; Student in Paris, 1903; A.M., Harvard University, 1904; Austin Teaching Fellow, *ibid.*, 1905-1906; Ph.D., *ibid.*, 1906; Student in Spain and Italy, 1906; Assistant Professor of Romance Languages, University of Missouri, 1906-1909; Professor of Romance Languages, University of North Carolina, 1909—.

LUCIUS POLK MCGEHEE, A.B., Professor of Law.

A.B., University of North Carolina, 1887; Student, School of Law, *ibid.*, 1890-1891; Professor of Law, *ibid.*, 1904—; Dean of the School of Law, *ibid.*, 1910—.

ATWELL CAMPBELL MCINTOSH, A.M., Professor of Law.

A.B., Davidson College, 1881; A.M., *ibid.*, 1887; Professor of Law, Trinity College (N. C.), 1904-1910; Professor of Law, University of North Carolina, 1910—.

ALVIN SAWYER WHEELER, Ph.D., Professor of Organic Chemistry.

A.B., Beloit College, 1890; Student, University of Chicago, 1895; Student Cornell University, 1897; A.M., Harvard University, 1897; Assistant in Chemistry, *ibid.*, 1897-1900; Ph.D., *ibid.*, 1900; Associate Professor of Chemistry, University of North Carolina, 1900-1912; Professor of Organic Chemistry, *ibid.*, 1912—; Student, University of Berlin, University of Bonn, Swiss Federal Polytechnic, 1910-1911.

LOUIS ROUND WILSON, Ph.D., Professor of Library Administration.

A.B., University of North Carolina, 1899; Librarian, *ibid.*, 1901—; A.M., *ibid.*, 1902; Ph.D., *ibid.*, 1905; Associate Professor of Library Administration, *ibid.*, 1908-1912; Student, Columbia University,

1910; Professor of Library Administration, University of North Carolina, 1912—; Director of the Bureau of Extension, *ibid.*, 1914—.

Parker Hayward Daggett, S.B., Professor of Electrical Engineering.

Assistant in Electrical Engineering, Harvard University, 1908-1909; S.B., *ibid.*, 1910; Acting Professor of Electrical Engineering, University of North Carolina, 1910; Associate Professor of Electrical Engineering, *ibid.*, 1910-1913; Professor of Electrical Engineering, *ibid.*, 1913—; Acting Dean of the School of Applied Science, 1915-1916; District Educational Director, Committee on Education and Special Training, War Plans Division General Staff, 1918.

James Munsie Bell, Ph.D., Smith Professor of Chemistry.

B.A., University of Toronto, 1902; M.A., *ibid.*, 1905; Assistant in Chemistry, Cornell University, 1902-1903; Graduate Scholar in Chemistry, *ibid.*, 1903-1904; Sage Fellow in Chemistry, *ibid.*, 1904-1905; Ph.D., *ibid.*, 1905; Associate Professor of Physical Chemistry, University of North Carolina, 1910-1913; Professor of Physical Chemistry, *ibid.*, 1913-1919; Chemical Warfare Service 1918; Smith Professor of Chemistry, University of North Carolina, 1919—.

Edwin Greenlaw, Ph.D., Kenan Professor of English.

A.B., Northwestern University, 1897; A.M., *ibid.*, 1898; A.M., Harvard University, 1903; Ph.D., *ibid.*, 1904; Instructor in English, Northwestern University, 1898-1902; 1904-1905; Instructor in English, University of Chicago, 1904-1907; Professor of English, Adelphi College, 1905-1913; Professor of English, University of North Carolina, 1913-1918; Kenan Professor of English, *ibid*, 1918—.

Lester Alonzo Williams, A.M., Pd.D., Professor of School of Administration.

A.B., Dartmouth College, 1903; A.M., New York University, 1909, Pd.D., *ibid.*, 1912; Supervisor of Schools and Principal of High Schools in Massachusetts and New Hampshire, 1903-1912; Supervising Principal, Leonia, N. J., 1913; Lecturer Brooklyn Institute of Arts and Sciences, 1913; Professor of School Administration University of North Carolina, 1913—.

JAMES BELL BULLITT, A.M., M.D., Professor of Histology and Pathology.

A.B., Washington and Lee University, 1894; A.M., *ibid.*, 1895; M.D., University of Virginia, 1897; Demonstrator of Anatomy, *ibid.*, 1898-1903; Professor of Anatomy and Pathology, University of Mississippi, 1903-1913; Professor of Histology and Pathology, University of North Carolina, 1913—; Major, M. C., U. S. A., Base Hospital 65, A. E. F.

THOMAS JAMES WILSON, JR., Ph.D., Registrar.

A.B., University of North Carolina, 1894; A.M., *ibid.*, 1896; Ph.D., *ibid.*, 1898; Instructor in Latin and Greek, *ibid.*, 1899-1901; Instructor in Latin, *ibid.*, 1901-1902; Student, University of Chicago, 1903, 1906; Associate Professor of Latin, University of North Carolina, 1902-1915; Registrar, *ibid.*, 1908—.

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., Kenan Professor of Rural Economics and Sociology.

A.M., Trinity College (N. C.), 1894; A.M. Peabody Normal College (Tenn.), 1899; President, Georgia State Normal School, 1900-1912; Professor of Rural Economics and Sociology, *ibid.*, 1912-1914; Professor of Rural Economics and Sociology, University of North Carolina, 1914-1919; Kenan Professor of Rural Economics and Sociology, *ibid.*, 1919—; Litt.D., University of Georgia, 1919.

DUDLEY DEWITT CARROLL, M.A., Professor of Economics.

A.B., Guilford College, 1907; A.B., Haverford College, 1908; M.A., Columbia University, 1915; Professor of History and Economics, Guilford College, 1909-1914; Assistant Professor of Economics, Hunter College, 1916-1918; Professor of Economics, University of North Carolina, 1918—; Acting Dean of the School of Commerce, *ibid.*, 1919—.

FREDERICK HENRY KOCH, A.M., Professor of Dramatic Literature.

A.B., Ohio Wesleyan University, 1900; A.M., Harvard University, 1909; Instructor in English, University of North Dakota, 1905-1906; Assistant Professor of English, *ibid.*, 1907-1909; Associate Professor of Dramatic Literature, *ibid.*, 1909-1917, Professor of Dramatic Literature, *ibid.*, 1917-1918; Visiting Professor, University of California, Summer Session, 1910; Exchange Professor, University of Manitoba, 1918; Professor of Dramatic Literature, University of North Carolina, 1918—.

John Harris Mustard, B.S. in E.E., Professor of Electrical Engineering.

B.S., in E.E., University of Michigan, 1904; Assistant in Electro-Therapeutics, University of Michigan, 1903-1904; In charge of instruction of graduate students in engineering, Westinghouse Electric and Manufacturing Company, 1909-1918; Professor of Electrical Engineering, University of North Carolina, 1918—.

John Emery Lear, E.E., Professor of Engineering Sciences.

B.S., in E.E., Virginia Polytechnic Institute, 1901; Student, Cornell University, 1901-1902; Instructor in Physics and Electrical Engineering, Texas Agricultural and Mechanical College, 1905-1907; Assistant Professor of Electrical Engineering, *ibid.*, 1907-1909; E.E., *ibid.*, 1909; Associate Professor of Electrical Engineering, *ibid.*, 1909-1913; Professor of Physics, Norwich University, 1913-1914; Professor of Electrical Engineering, *ibid.*, 1913-1917; Professor of Engineering Sciences, University of North Carolina, 1918—.

Major Frederick William Boye, Professor of Military Science and Tactics, R.O.T.C.

United States Military Academy, West Point, N. Y., 1911-1915; Major Cavalry, U. S. A.; Professor of Military Science and Tactics, University of North Carolina, 1919—.

Norman Foerster, A.M., Professor of English.

A.B., Harvard University, 1910; Instructor in English, Harvard Summer School, 1910, 1913; Student, Harvard University 1910-1911; Instructor in English, University of Wisconsin, 1911-1914; A.M., *ibid.*, 1912; Associate Professor of English, University of North Carolina, 1914-1919; Professor of English, *ibid.*, 1919—.

James Holly Hanford, Ph.D., Professor of English.

A.B., University of Rochester, 1904; Ph.D., Harvard University, 1909; Assistant in English, *ibid.*, 1908; Instructor in English *ibid.*, 1910-1913; Assistant Professor of English, Simmons College, 1909-1914; Associate Professor of English, University of North Carolina, 1914-1919; Professor of English, *ibid.*, 1919—.

John Grover Beard, Ph.G., Professor of Pharmacy.

Assistant in Pharmacy, University of North Carolina, 1908-1909; Ph.G., *ibid.*, 1909; Instructor in Pharmacy, *ibid.*, 1909-1914; Assistant Professor of Pharmacy, *ibid.*, 1914-1917; Associate Professor of Pharmacy, *ibid.*, 1917-1919; Professor of Pharmacy, *ibid* 1919—.

EDGAR WALLACE KNIGHT, Ph.D., Professor of Rural Education.

A.B., Trinity College (N. C.), 1909; A.M., *ibid.*, 1911; Master in History, Trinity Park School, 1909-1911; Fellow in Education Columbia University, 1912-1913; Ph.D., *ibid.*, 1913; Assistant Professor of Education, Trinity College (N. C.), 1913-1916; Professor of Education, *ibid.*, 1916-1917; Superintendent of Wake County Schools, 1917-1918; Assistant District Educational Director, Committee on Education and Special Training, War Plans Division General Staff, 1918; Professor of Rural Education, University of North Carolina, 1919—.

PAUL JOHN WEAVER, B.A., Professor of Music.

B.A., University of Wisconsin, 1911; Graduate Student; *ibid.*, 1913-1915; Director of Music, Racine College, 1911-1912; Supervisor Public School Music, Madison, Wis., 1915; Supervisor, Public School Music, St. Louis, Mo., 1916-1919; A.A.G.O., University of New York, 1918; Instructor in Harmony, American Institute Normal Methods, Northwestern University Summer School, 1919; Second Class Seaman, U. S. N. R. F., Professor of Music, University of North Carolina, 1919—.

THOMAS JAMES BROWNE, M.A., Director of Physical Education.

B.P.E., Springfield Y. M. C. A., Training School, 1899; Playground Supervisor, City of Boston, 1900; Student, Harvard University, 1901-1902; Physical Director, Teachers College, New York City, 1902-1903; B. S., Columbia University, 1905; Head of the Department of Physical Training, Commercial High School, Brooklyn, N. Y., 1905-1917; Playground Supervisor, New York City, 1905; Graduate Student, New York University, 1915-1918; M.A., *ibid.*, 1915; Athletic Director, with rank of Captain 35th Division U. S. A.. Director of Physical Education, University of North Carolina, 1919—.

WILLIAM FREDERICK PROUTY, Ph.D., Professor of Stratigraphic Geology.

B.S., Syracuse University, 1903; M.S., *ibid.*, 1904; Ph.D., Johns Hopkins University, 1906; Associate Professor of Geology, University of Alabama, 1906-1912; Professor of Geology, *ibid.*, 1912-1919; Chief Assistant Alabama Geological Survey, 1906-1919; Professor of Stratigraphic Geology, University of North Carolina, 1919—.

William Stanley Bernard, A.M., Associate Professor of Greek.
Student, Episcopal Theological Seminary (Va), 1893-1895; A.B., University of North Carolina, 1900; Librarian *ibid.*, 1900-1901; Instructor in Greek, *ibid.*, 1901-1906; A.M., *ibid.*, 1904; Associate Professor of Greek; *ibid.*, 1906—; Student, University of Chicago 1906; Columbia University, 1909, 1910, 1911.

Robert Baker Lawson, M.D., Associate Professor of Anatomy.
Student, University of North Carolina, 1897-1900; M.D., University of Maryland, 1902; Instructor in Anatomy, University of North Carolina, 1905-1906; Demonstrator in Anatomy, *ibid.*, 1906-1908; Associate Professor of Anatomy, *ibid.*, 1908—.

*George McFarland McKie, A.M., Associate Professor of Public Speaking.
Graduate, Emerson College of Oratory, 1898; A.B., A.M., University of North Carolina, 1907; Student, Harvard University, 1907-1908; Instructor in English, University of North Carolina, 1899-1908; Associate Professor of Public Speaking, *ibid.*, 1908—.

John Manning Booker, Ph.D., Associate Professor of English.
A.B., Johns Hopkins University, 1901; Student, *ibid.*, 1901-1903; 1905-1909; Student, University of Munich, 1904-1905; Student, University of Heidelberg, 1903-1904, 1905, 1909, 1910, 1911; Ph.D., *ibid.*, 1912; Associate Professor of English, University of North Carolina, 1909—.

Oliver Towles, Ph.D., Associate Professor of Romance Languages.
A.B., University of Virginia, 1906; Student, Johns Hopkins University, 1906-1909; Student in France, 1908; Ph.D., Johns Hopkins University, 1912; 2d. Lieutenant, M. G. Co., 322 Infantry; Associate Professor of Romance Languages, University of North Carolina, 1909—.

Thomas Felix Hickerson, A.M., S.B., Associate Professor of Civil Engineering.
Ph.B., University of North Carolina, 1904; Instructor in Mathematics, *ibid.*, 1905-1908; A.M., *ibid.*, 1907; S.B., Massachusetts Institute of Technology, 1909; Associate Professor of Civil Engineering, University of North Carolina, 1910—.

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*Absent on leave.

KENT JAMES BROWN, Ph.D., Associate Professor of German.
A.B., Dickinson College, 1901; Ph.D., University of Pennsylvania, 1905; Student, University of Berlin, 1904-1905; Student, University of Munich, 1909-1911; Assistant in German, University of Pennsylvania, 1902-1904; Instructor in German, State University of Iowa, 1911-1912; Associate Professor of German, University of North Carolina, 1912—.

WILLIAM WHATLEY PIERSON, JR., Ph.D., Associate Professor of History.
A.B., University of Alabama, 1910; Teaching Fellow in English, *ibid.*, 1910-1911; A.M., *ibid.*, 1911; A.M., Columbia University, 1912; Graduate Student, *ibid.*, 1911-1913; Assistant in History, *ibid.*, 1913-1914; Instructor in History, *ibid.*, 1914-1915; Ph.D., *ibid.*, 1916; Instructor in History, University of North Carolina, 1915-1917; Assistant Professor of History, *ibid.*, 1917-1918; Associate Professor of History, *ibid.*, 1918.

*STURGIS ELLENO LEAVITT, Ph.D., Associate Professor of Romance Languages.
A.B., Bowdoin College, 1908; Student, Harvard University, 1912-1913; A.M., *ibid.*, 1913; Instructor in Romance Languages, Northwestern University, 1913-1914; Instructor in Romance Languages, Harvard University, 1915-1917; Ph.D., *ibid.*, 1917; Assistant Professor of Romance Languages, University of North Carolina, 1917-1918; Associate Professor of Romance Languages, *ibid.*, 1918—.

JAMES TALMAGE DOBBINS, Ph.D., Associate Professor of Chemistry.
A.B., University of North Carolina, 1911; A.M., *ibid.*, 1912; Ph.D., *ibid.*, 1914; Instructor in Chemistry, North Carolina State College of Agriculture and Engineering, 1914-1918; Associate Professor of Chemistry, University of North Carolina, 1918—.

THORNDIKE SAVILLE, C.E., Associate Professor of Hydraulic and Sanitary Engineering.
A.B., Harvard University, 1914; B.S., Dartmouth College, 1914; C.E., *ibid.*, 1915; M.S., Harvard University, 1917; M.S., Mass. Inst. Technology, 1917; Field Assistant in Surveying, Dartmouth College, Summers of 1914, 1915, 1916; Assistant in Physics, Dartmouth College, 1914-1915; Assistant in Geology, Harvard University, 1915-1917; Assistant in Sanitary Engineering, Harvard

*Absent on leave.

University, 1916-1917; First Lieutenant, Signal Corps, Special duty as Sanitary Engineer attached to Construction Division; Associate Professor of Hydraulic and Sanitary Engineering, University of North Carolina, 1919—.

John Frederick Dashiell, Ph.D., Associate Professor of Psychology.

B.S., Moores Hill College, 1908; B.L., *ibid.*, 1909; A.M., Columbia University, 1910; Assistant in Philosophy, *ibid.*, 1910-1913; Ph.D., *ibid.*, 1913; Professor of Education, Waynesburg College, 1913-1914; Instructor in Philosophy, Princeton University, 1914-1915; Instructor in Philosophy, University of Minnesota, 1915-1916; Instructor in Psychology, *ibid.*, 1916-1917; Assistant Professor of Psychology, Oberlin College, 1917-1919; Associate Professor of Psychology, University of North Carolina, 1919—.

Roy Burford Cowin, M.A., Associate Professor of Accounting.

Student, University of Michigan Engineering College, 1907-1908; Student Central State Normal School, 1910-1911; A.B., University of Michigan, 1916; M.A., *ibid.*, 1918; Instructor in Economics, *ibid.*, 1916-1918; Instructor in Accounting, University of Iowa, 1918-1919; Assistant Professor of Accounting, *ibid.*, 1919; Associate Professor of Accounting, University of North Carolina, 1919—.

George Kenneth Grant Henry, Ph.D., Assistant Professor of Latin.

A.B., Hamilton College, 1900; A.M., *ibid.*, 1904; Instructor in Mathematics, University of North Carolina, 1908-1909; Instructor in Latin, *ibid.*, 1909-1914; Ph.D., *ibid.*, 1914; Assistant Professor of Latin, *ibid.*, 1914—.

Henry McCune Dargan, Ph.D., Assistant Professor of English.

A.B., Mercer University, 1910; Student, University of California, 1910-1911; Student, University of Chicago, 1911; A.M., Harvard University, 1912; Ph.D., *ibid.*, 1914; Instructor in English, University of North Carolina, 1914-1917; Assistant Professor of English, *ibid.*, 1917—; Captain Military Intelligence Division.

*John Wayne Lasley, A.M., Assistant Professor of Mathematics.

A.B., University of North Carolina, 1910; Fellow in Mathematics, *ibid.*, 1910-1911; A.M., *ibid.*, 1911; Instructor in Mathematics,

*Absent on leave.

ibid., 1911-1915; Fellow in Mathematics, Johns Hopkins University, 1915-1916; Instructor in Mathematics, University of North Carolina, 1916-1918; Assistant Professor of Mathematics, *ibid.*, 1918—.

GUSTAVE ADOLPHUS HARRER, Ph.D., Assistant Professor of Latin.
A.B., Princeton University, 1910; Ph.D., *ibid.*, 1913; Instructor in Classics, *ibid.*, 1913-1915; Instructor in Latin, University of North Carolina, 1915-1918; Assistant Professor of Latin, *ibid.*, 1918—.

*WILLIAM WALTER RANKIN, JR., A.M., Assistant Professor of Mathematics.
B.E., North Carolina College of Agriculture and Mechanic Arts, 1904; Professor of Mathematics, Fredericksburg College, 1908-1911; A.M., University of North Carolina, 1912; Fellow in Mathematics, *ibid.*, 1912-1913; Instructor in Mathematics, *ibid.*, 1913-1914, 1915-1918; Student, Harvard University, 1914-1915; Assistant Professor of Mathematics, University of North Carolina, 1918—.

HERMAN HENRY STAAB, M.A., Assistant Professor of Romance Languages.
Student, University of Tubingen, 1895-1898; Student, University of Halle, 1899; Student University of Geneva, 1900; In France, Italy and Spain, 1901-1905; Argentina and Brazil, 1906; Harvard University, 1910; Summer Session; B.A., M.A., University of the South, 1912; Professor of French, University of the South, Summer Quarter, 1914; Professor of Romance Languages, Converse College, 1913-1918; Professor of French, George Peabody College for Teachers, Summer Quarter, 1918; Assistant Professor of Romance Languages, University of North Carolina, 1918—.

FRANK PORTER GRAHAM, M.A., Assistant Professor of History.
A.B., University of North Carolina, 1909; Student of Law, *ibid.*, 1909-1910; 1912-1913; A.M., Columbia University, 1916; First Lieutenant, U. S. Marines; Instructor in History, University of North Carolina, 1914-1919; Assistant Professor of History, *ibid.*, 1919—; Dean of Students, *ibid.*, 1919—.

SAMUEL HUNTINGTON HOBBS, JR., A.M., Assistant Professor of Rural Economics and Sociology.
A.B., University of North Carolina, 1916; A.M., *ibid.*, 1917;

*Absent on leave.

Ensign, U. S. N. R. F. in Command of Submarine Chaser No. 194; Instructor in Rural Economics and Sociology, University of North Carolina, 1916-1919; Assistant Professor of Rural Economics and Sociology, *ibid.*, 1919—.

Allan Wilson Hobbs, Ph.D., Assistant Professor of Mathematics.
A.B., Guilford College, 1907; A.B., Haverford College, 1908; Instructor in Mathematics, Guilford College, 1909-1911; Professor of Mathematics, *ibid.*, 1913-1915; Ph.D., Johns Hopkins University, 1917; Instructor in Mathematics, University of North Carolina, 1917-1919; Assistant Professor of Mathematics, *ibid.*, 1919—.

Clarence Addison Hibbard, M.A., Assistant Professor of English.
B.A., University of Wisconsin, 1909; Instructor in English, Government Middle Schools, Kagoshima, Japan 1909-1911; Professor of English Language, Imperial College of Commerce, Nagasaki, Japan, 1911-1914; Graduate Student, University of Wisconsin, 1916-1917; Assistant in English, *ibid.*, 1916-1917; Assistant Professor of English, Miami University, 1917-1918; M.A., University of Wisconsin, 1919; Assistant Professor of English, University of North Carolina, 1919—.

Lenoir Chambers, A.B., Assistant Professor of Journalism.
A.B., University of North Carolina, 1914; Student, Columbia University, School of Journalism, 1916-1917; First Lieutenant, 52d, Infantry, Sixth Division, A. E. F.; Assistant Professor of Journalism, University of North Carolina, 1919—.

Charles Melville Baker, B.L.S., Assistant Professor of Library Administration.
A.B., Harvard University, 1910; A.M., *ibid.*, 1911; Instructor in English, Syracuse University, 1913-1915; B.L.S., New York State Library School, 1918; Assistant Professor of Library Administration, University of North Carolina, 1919—.

Oscar Ogburn Efird, LL.B., Assistant Professor of Law.
A.B., Roanoke College, 1912; A.M., Princeton University, 1913; Battalion Sergeant Major, Judge Advocate's Office, 20th Division; LL.B., Harvard University, 1919; Assistant Professor of Law, University of North Carolina, 1919—.

Arthur Simeon Winsor, A.M., Assistant Professor of Mathematics.
A.B., Mount Allison University, 1914; A.M., *ibid.*, 1915; Assistant in Mathematics, *ibid.*, 1913-1915; Instructor in Mathematics,

Rice Institute, 1915-1917; Fellow in Mathematics, *ibid.*, 1915-1917; Instructor in Mathematics, Loomis Institute, 1917-1919; Assistant Professor of Mathematics, University of North Carolina, 1919—.

NORMAN MORTON PAULL, S.B., Assistant Professor of Drawing.
S.B., in Mechanical Engineering, Worcester Polytechnic Institute, 1893; Student, Northwestern University Medical School, 1896-1897; Student in Chemistry and Dyeing, New Bedford Textile School, 1913-1916; Graduate Student, *ibid.*, 1916-1917; Assistant Professor of Drawing, University of North Carolina, 1919—.

HENRY ROLAND TOTTEN, A.M., Instructor in Botany.
A.B., University of North Carolina, 1913; Assistant in Botany, *ibid.*, 1913-1914; A.M., *ibid.*, 1914; Second Lieutenant Headquarters Company, 318th Field Artillery; Student, University of Paris, 1919; Instructor in Botany, University of North Carolina 1914—.

CLINTON WALKER KEYES, Ph.D., Instructor in Classics.
A.B., Princeton University, 1910; Ph.D., *ibid.*, 1913; Student, University of Berlin, 1913-1914; Instructor in Classics, Princeton University, 1914-1916; Second Lieutenant, 47th Regt. Coast Artillery, A. E. F.; Instructor in Classics, University of North Carolina, 1916—.

HARRY MORRISON SHARP., A.B., Instructor in Physics.
A.B., Vanderbilt University, 1906; Student, University of Chicago, 1915-1917; Instructor in Physics, University of North Carolina, 1917—.

IRA WELBORN SMITHEY, M.S., Instructor in Chemistry.
B.S., University of North Carolina, 1918; M.S., *ibid.*, 1919; Instructor in Chemistry, *ibid.*, 1918—.

CHARLES MORTIMER HAZLEHURST, Instructor in Mathematics.
Student, University of North Carolina, 1915—; Instructor in Mathematics, *ibid.*, 1918—.

JAMES STRONG MOFFATT, JR., Ph.D., Instructor in English.
A.B., Erskine College, 1911; A.M., Princeton University, 1914; Professor of Latin and English, Horner Military School, 1914-1915; Assistant in English, University of North Carolina, 1916-

1919; Student, University of Chicago, Summer Session, 1918; Ph.D., University of North Carolina, 1919; Instructor in English, *ibid.*, 1919—.

Isaac Vilas Giles, B.S., Instructor in Chemistry.
B.S., University of North Carolina, 1918; Assistant in Chemistry, *ibid.*, 1916-1918; Instructor in Chemistry, *ibid.*, 1919—.

Jefferson Carney Bynum, S.B., Instructor in Mineralogy.
Second Lieutenant Infantry, U. S. A., Assistant in Geology, University of North Carolina, 1917-1918; Assistant in Mineralogy, *ibid.*, 1918-1919; S.B., in Geology, *ibid.*, 1919; Instructor in Mineralogy, *ibid.*, 1919—.

Joe Burton Linker, A.B., Instructor in Mathematics.
A.B., University of North Carolina, 1918; Second Lieutenant Field Artillery; Instructor in Mathematics, *ibid.*, 1919—.

Julian Alison Moore, B.S., M.D., Instructor in Histology.
B.S., in Medicine, University of North Carolina, 1916, M.D., University of Pennsylvania, 1918; Resident Physician, Pennsylvania Hospital, 1918; Instructor in Histology, University of North Carolina, 1919—.

Chesley Mastin Hutchings, A.M., Instructor in French.
A.B., Trinity College (N. C.), 1911; A.M., *ibid.*, 1914; Student, Columbia University, Summer Session, 1915; A.M., Harvard University, 1919; Instructor in French, University of North Carolina, 1919—.

John Theodore Krumpelmann, A.M., Instructor in German.
B.A., Tulane University, 1915; M.A., *ibid.*, 1916; Assistant and Teaching Fellow in German, *ibid.*, 1914-1916; Instructor in German Lehigh University, 1916-1917; A.M., Harvard University, 1917; Second Lieutenant, 79th Infantry; Instructor in German, University of North Carolina, 1919—.

Charles Isadore Silin, Instructor in French.
Student, Harvard University, 1914-1917; Student University of Lyons, France, March 15-June 30, 1919; Student, Harvard University, Summer Session, 1919; Private U. S. A., Ambulance Service with French Army, S. S. U., 511; Instructor in French, University of North Carolina, 1919—.

HERMAN SCHOELER, A.B., Instructor in English.
Student, College of the City of New York, 1913-1915; A.B., Yale University, 1918; Second Lieutenant, 53d Pioneer Infantry, A. E. F.; Instructor in English, University of North Carolina, 1919—.

WILLIAM FRED HUNTER, A.B., Instructor in Mathematics.
A.B., University of North Carolina, 1919; Instructor in Mathematics, *ibid.*, 1919—.

WILLIAM ENOCH PRICE, A.B., Instructor in Mathematics.
A.B., University of North Carolina, 1919; Instructor in Mathematics, *ibid.*, 1919—.

JAMES BLAINE DAVIS, A.B., Instructor in Mathematics.
A.B., Wake Forest College, 1916; Instructor in Mathematics, University of North Carolina, 1919—.

ANDREW PUREFOY NEWCOMB, Assistant in Anatomy.
BLACKWELL MARKHAM, A.B., A.M., Assistant in Bacteriology.
JOHN NATHANIEL COUCH, Assistant in Botany.
ETTA PIERSON, Assistant in Botany.
ALMA HOLLAND, Assistant in Botany.
FLETCHER HUMPHRIES SPRY, Assistant in Chemistry.
WOODFORD WHITE, Assistant in Chemistry.
JOSEPH IRVEN HOLLAND, Assistant in Chemistry.
CHARLES CLARENCE CARTER, Assistant in Chemistry.
HOUSTON SPENCER EVERETT, Assistant in Chemistry.
FREDERICK PHILLIPS BROOKS, Assistant in Chemistry.
JOHN WORTH GUARD, Assistant in Chemistry.
BARNETTE NAIMAN, Assistant in Chemistry.
LOUIS MANN NELSON, Assistant in Chemistry.
SIHON CICERO OGBURN, JR., Assistant in Chemistry.
ROBERT ODUS DEITZ, JR., Assistant in Chemistry.
ERNST OTTO MOEHMANN, Assistant in Chemistry.
JOHN ALPHEUS BENDER, Assistant in Chemistry.
THOMAS PUGH DAWSON, Assistant in Chemistry.
ROY HOBART SOUTHER, Assistant in Chemistry.
RICHARD THEODORE LENOIR, JR., Assistant in Civil Engineering.
PHILIP CARVER SMITH, Assistant in Electrical Engineering.

Marshall Edgar Lake, Assistant in Electrical Engineering.
Thomas Perrin Harrison, Jr., A.B., Assistant in English.
John Lee Aycock, A.B., Office Assistant in English.
Albert McKinley Coates, A.B., Teaching Fellow in English.
Edwin Samuel Lindsey, A.B., Teaching Fellow in English.
William Dougald Macmillan, 3d, A.B., Teaching Fellow in English.
Theodore Edward Rondthaler, A.B., Teaching Fellow in English.
Harry Towles Davis, A.B., Assistant in Geology.
William Henry Andrews, Jr., Assistant in Geology.
Jasper Leonidas Stuckey, A.B., Assistant in Geography.
Josiah Smith Babb, Assistant in Geography.
David Jennings Rose, Assistant in Pathology.
Franklin Limer Payne, Assistant in Pharmacology.
Marion Lee Jacobs, Assistant in Pharmacy.
John Crayton Mills, Assistant in Pharmacy.
Nathan Mobley, Assistant in Physics.
William Francis Allston, Assistant in Physics.
William Earle Overcash, Assistant in Physics.
Onis Gray Forney, Assistant in Physics.
Ralph Van Landingham, Jr., Assistant in Physics.
William Banks Anderson, Assistant in Zoology.
Joseph Lindsay Cook, Assistant in Zoology.
Calvert Rogers Toy, Assistant in Zoology.
Allen Alexander Miner, Assistant in Zoology.

FACULTY COMMITTEES

The President is a member *ex officio* of all committees.

Advisory (*elected*). Professors Howe, Wilson, L. R., McGehee, Greenlaw, Coker.

Executive (*elected*). Professors Graham, Daggett, Howe, Wagstaff.

Advanced Standing. Professors Howe, Daggett, The Registrar.

Athletics. Professors Mangum, Henderson, Howell, Lawson, Brown, K. J., Patterson, Browne, T. J., Hobbs, A. W.

ALUMNI CATALOGUE. The Registrar, Professors Hamilton, Wilson, L. R., Mr. Rankin and Alumni representatives.

ALUMNI ORGANIZATION. Mr. Rankin, Professors Bernard, Patterson, Graham, Mr. Coates.

CATALOGUE. Professors Daggett, Howe, Henry, Mustard, The Registrar.

CHAPEL. Professors Patterson, Daggett.

CLASS REUNIONS. Mr. Rankin, Professors Wagstaff, Graham.

COMMONS. Professors Toy, Wheeler, Wagstaff.

CORRESPONDENCE STUDY. Professors Williams, L. A., Howe, Pierson, Knight, Hanford.

COURSES OF STUDY. Professors Howe, Greenlaw, Dey, Hanford.

CURRICULUM. Professors Howe, Coker, Daggett, Dey, Greenlaw, The Registrar.

DEBATES. Professors Williams, H. H., Raper, Bernard, Greenlaw.

DEGREES WITH DISTINCTION. Professors Greenlaw, Daggett, Hamilton, Henderson, Howe, Raper, Toy, Wilson, H. V., Carroll.

DRAMATICS. Professors Koch, Howe, Daggett, Greenlaw, Weaver, Wheeler.

ENTRANCE CERTIFICATES. Professors Williams, L. A., Daggett, Walker, The Registrar.

ENTRANCE CONDITIONS. The Registrar, Professors Daggett, Foerster, Henry.

GRADUATE SCHOOL. Professors Raper, Bell, Greenlaw, Pierson, Williams, L. A.

GROUNDS AND BUILDINGS. Professors Coker, Cobb, MacNider, Wheeler, Booker.

LIBRARY. Professors Raper, Coker, Dey, Greenlaw, Foerster.

LIBRARY APPROPRIATIONS. Professors Raper, Toy, Wilson, H. V.

MACNAIR LECTURES. Professors Coker, Henderson, Williams, H. H., MacNider.

PRESS ASSOCIATION. Professors Wilson, L. R., Chambers, Hibbard.

PUBLICATIONS. Professors Wilson, L. R., Hamilton, Coker, Hanford, Chambers.

PUBLIC LECTURES. Professors Henderson, Howe, McGehee, MacNider, Coker, Carroll.

Public Occasions and Celebrations. Professors Henderson, Hamilton, Patterson, Wheeler, Howe, Pratt.

Schedules. The Dean of the College, The Registrar.

Self-Help. Professors Bell, Wheeler, Hickerson, Graham, Mr. Wunsch.

Student Life and Activities. Professors Booker, Wheeler, Wagstaff, Graham, Mrs. Stacy.

University Extension. Professors Wilson, L. R., Noble, Raper, Daggett, Williams, L. A., Branson, Walker, Hanford, Pierson, Knight, Carroll, Browne, T. J., Mr. Rankin.

University Magazine. Professors Cobb, Booker, Foerster.

University Sermons. Professors Toy, Raper, Wheeler, Wagstaff.

Committee on Students' Health and Living Conditions. Professors Mangum, Boye, Browne, T. J., Lawson, MacNider, Saville, Dr. Abernethy and Mr. Woollen.

Committee on University Relations. Professors Wilson, L. R., Knight, Branson, Williams, L. A.

English Composition. Professors Foerster, Bell, Carroll, Hanford, Leavitt, Pierson.

PART TWO—GENERAL INFORMATION

THE UNIVERSITY

GROUNDS AND BUILDINGS

ADMISSION

EXPENSES

PECUNIARY AID

MEDALS AND PRIZES

REGULATIONS

STUDENT GOVERNMENT

RESERVE OFFICERS TRAINING CORPS

PUBLIC LECTURES

UNIVERSITY ORGANIZATIONS

THE UNIVERSITY

FOUNDATION AND GOVERNMENT. The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of incorporation are as follows:

"AN ACT TO ESTABLISH A UNIVERSITY IN THIS STATE"

"WHEREAS in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honorable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the Authority of the Same,* That, *Samuel Johnson, James Iredell, Charles Johnson, Hugh Williamson, Stephen Cabarrus, Richard Dobbs Spaight, William Blount, Benjamin Williams, John Sitgreaves, Frederick Hargett, Robert Snead, Archibald Maclaine,* Honourable *Samuel Ashe, Robert Dixon, Benjamin Smith,* Honourable *Samuel Spencer, John Hay, James Hogg, Henry William Harrington, William Barry Grove,* Reverend *Samuel McCorkle, Adlai Osborne, John Stokes, John Hamilton, Joseph Graham,* Honourable *John Williams, Thomas Person, Alfred Moore, Alexander Mebane, Joel Lane, Willie Jones, Benjamin Hawkins, John Haywood,* senior *John Macon, William Richardson Davie, Joseph Dixon, William Lenoir, Joseph M'Dowell, James Holland* and *William Porter, Esquires,* shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of *The Trustees of the University of North Carolina** and by that name shall have perpetual Succession and a common Seal; and that they the Trustees and their Successors, by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and

*The corporate name has been changed to The University of North Carolina.

Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."*

The University is governed by a board of trustees elected by the Legislature and is free from sectionalism, sectarian or political control. The Governor of the State is *ex officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University.

"Sec. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchise, and endowments thereof, in any wise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"SEC. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estate of deceased persons, shall be appropriated to the use of the University."

LOCATION. The seat of the University is Chapel Hill, Orange County, twenty-eight miles northwest of Raleigh. Two daily passenger trains run between Chapel Hill and University Junction, a station on the Southern Railway. A regular automobile service is maintained between Durham and Chapel Hill, leaving Durham at 9:52 a. m., 12:40 p. m., 5:12 p. m., and 8:00 p. m. The site for the institution was selected because of its healthfulness, its freedom from malaria, its supply of pure water, its beautiful scenery, and its central location in the State.

DEGREES. The degrees of Bachelor of Arts, Bachelor of Science. Master of Arts, Master of Science, Doctor of Philosophy, Bachelor of Laws, Bachelor of Arts and Laws, Bachelor of Science in Commerce, Graduate of Pharmacy, Doctor of Pharmacy, and Pharma-

*Laws of the State of North Carolina, published by James Iredell, Edenton, 1791.

ceutical Chemist are conferred by vote of the Trustees, after the recommendation of the Faculty, upon candidates who have satisfied the requirements of residence and study at the University. Students who are not candidates for a degree may elect any studies they wish, subject to the Committee on Courses, devoting their time entirely to one or two subjects, or selecting groups of such subjects as suit their tastes and purposes.

General Culture. Chapel Exercises are conducted in Gerrard Hall, with the reading of the scriptures and singing, every week-day morning except Saturday, at 10:30 o'clock. At the same hour timely talks are given by different members of the Faculty. Attendance at this service is required of undergraduates, unless especially excused. Bible classes for young men are taught in each of the five churches of the village every Sunday. Religious services are held twice a week, or oftener, in each church. A series of sermons is delivered annually by the University preachers, chosen by the Trustees from the various denominations. Bible lectures are delivered every Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week, for prayer and other services, and conducts a series of Bible courses, which are largely attended by the students.

Discipline. The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty, may at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct.

Physical Training. Hearty encouragement is given to athletic sports and to all kinds of physical culture. The Emerson Athletic Field, the gift of Mr. Isaac Emerson of Baltimore, furnishes ample facilities for football and baseball, and the track is admirably adapted for running and general track athletics. Fifteen tennis courts are located on the campus. Systematic exercise under skilled instructors is offered to all students in the University.

Exercise is required three hours a week of all Freshmen, unless excused. In the fall, a thorough physical examination of each Freshman is made, and the heart, the lungs, the eyes, and the ears, are tested, in order that students defective in physical development may be given special work under the personal supervision of the Director. Round shoulders, flat chests, curvature of the spinal column, hernia and mild cases of congenital paralysis are thus often greatly benefited and sometimes completely corrected.

MEDICAL ATTENTION. In order to secure responsible and efficient medical advice and to provide proper attention for the student during sickness, the University employs a practicing physician and maintains a well appointed infirmary. The Infirmary is equipped with all necessary conveniences and comforts, is under the immediate supervision of the University Physician, and is provided with an experienced nurse. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made, but should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon) recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such services.

GROUNDS AND BUILDINGS

The University campus contains forty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest lands, which are partly laid off in walks and drives. The University has twenty-six buildings.

BUILDINGS FOR GENERAL UNIVERSITY USES

The Alumni Hall contains the offices of administration, and nine lecture rooms.

Gerrard Hall is used for morning prayers, for mass meetings and other student assemblies, and for public lectures.

Memorial Hall commemorates the illustrious dead of the University. It is used at Commencement for public exercises.

BUILDINGS FOR SPECIAL PURPOSES

Smith Hall contains the Law Library, offices and lecture rooms of the School of Law.

The Peabody Building, the gift of the Peabody board, contains lecture rooms, offices, library, and auditorium of the School of Education, and is splendidly equipped in every detail.

The Young Men's Christian Association Building is a valuable adjunct to the work of the Association.

The William Preston Bynum, Jr., Gymnasium is the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893. It is furnished with modern apparatus, swimming pool, baths, lockers and running track; and contains a trophy room and the office of the Instructor in Physical Training.

The Infirmary, a spacious and completely equipped building, is open to all the students of the University.

Swain Hall contains a dining-room with a seating capacity of six hundred, kitchens, a bakery, and a cold storage plant.

DORMITORIES

The South Building contains one lecture room and thirty living rooms.

The Old East Building contains two lecture rooms and twenty-eight living rooms.

The Old West Building contains two lecture rooms, the Historical Museum, and twenty-seven living rooms.

The New West Building contains the Dialectic Literary Society's Hall, one lecture room, and eleven living rooms.

The New East Building contains the Philanthropic Literary Society's Hall, the Geological Laboratory and Museum, the offices of the North Carolina Geological Survey, and fourteen living rooms.

University Inn is used for dormitory purposes, and contains a dining hall for students.

The Carr Building, the gift of Gen. J. S. Carr, contains forty-two living rooms.

The Smith Building contains forty living rooms.

The New Dormitories, Battle, Vance and Pettigrew Sections, contain seventy-two rooms en suite for the use of students.

LABORATORIES AND MUSEUMS

THE GEOLOGICAL LABORATORIES AND MUSEUM

The Geological Laboratory occupies the first floor of the New East Building. In addition to a lecture room with a seating capacity of about fifty, there is a large laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The laboratory is furnished with three petrographical microscopes, with four microscopes for soil study, and with apparatus for the slicing and polishing of rocks. Microscope slides have been made of most of the specimens from North Carolina; the department has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin, made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coal, and various products illustrating the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C. A complete set of the ores of the precious metals found along the line of the Atchison, Topeka, and Santa Fe Railroad is included in the collection. Valuable addi-

tions have been made to the collection of fossils also, affording increased opportunity for laboratory work in historical geology and paleontology. The collection illustrating economic geology has been largely increased by the addition of many specimens from the mining regions of Northern Ontario. Stereograph and lantern slides illustrating geological phenomena in all parts of the world and lantern slides showing mining methods in all the great mining regions are in constant use, and important additions to this collection have been made during the year.

The Department Library which occupies a room adjoining the exhibition room, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

THE CHEMICAL LABORATORIES

Chemistry Hall is located east of Alumni Hall. The main floor contains the large lecture hall, a small lecture room, the laboratory for Organic Chemistry, two laboratories for Quantitative Analysis, several private laboratories and offices for the instructors. On the second floor are two large laboratories for Elementary Chemistry, the large laboratory for Quantitative Analysis, several research laboratories and the Library of the Department. The basement contains the store rooms, fire-proof room, constant temperature room, assay room, laboratories for physical chemistry and electrochemistry and a small lecture room.

The laboratories are well equipped with apparatus for the regular courses and for research work of students or instructors. A most excellent collection of books and journals is of the utmost value in research work.

THE BIOLOGICAL LABORATORIES

The Biological Building, Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper-and-salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third floor. The building faces south, lies to the east of the New East, and adjoins the Arboretum.

The entrance hall, on the first floor, lighted with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological specimens. The

west wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the east wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with a window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accommodates twenty workers and is lighted on three sides with twenty windows. The main building on this floor includes private work rooms for the professors of zoology and botany; two store-rooms, and a library. On the third floor of the main body is a photographic studio with windows on the north side extending to the floor, and with skylights. In the basement are a fire-proof incubator room, a room for micro-photography with adjoining dark room, Janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants for experimental work in botany and zoology.

THE MEDICAL LABORATORIES

The new medical building, Caldwell Hall, completed in 1912, is located on the south side of Cameron Avenue opposite Davie Hall, facing north. This location secures the north light in all of the laboratories used for microscopic work.

To the north is the main building, 117 x 64, and adjoining this, to the South, is a wing, 63 x 36, each containing a basement and two floors. The first floor of the main building is bisected from north to south by an entrance hall 14 feet wide, and from east to west by a corridor 8 feet wide, dividing the floor space into four equal parts. Each part is subdivided into one large class laboratory, 34 x 27, and two private laboratories, 14 x 12 1-2. The class laboratories lie next to the entrance hall. Those on the north side will be used for microscopic work in Histology and Embryology. They are lighted from five large windows on the north side. On the south side are the laboratories for Physiological Chemistry and Experimental Physiology.

The private laboratories, located on the farther side of the class laboratories, are occupied by the instructors. The office of the Dean is in one of the private laboratories on this floor and may be entered from the west end of the corridor.

The second floor is a duplicate of the first floor with the exception that the space above the entrance hall is enclosed and is used for the Departmental Library. On the north side are the Bacteriological and Pathological laboratories, and on the south

side the Pharmacological laboratory and a lecture room. The laboratories here have the same arrangement as those on the first floor. Nearly opposite the Pathological laboratory is the Pathological Museum.

At the ends of the corridor on the first and second floors are small fire-proof rooms which will be used for incubators, thermostats, and other purposes requiring the continuous use of oil or gas lamps.

In the basement of the main building provision is made for the care of animals. The floors of the several apartments are covered with cement and are inclined to a common drain pipe. The rooms are well ventilated, lighted, and heated, and provided with all necessary facilities for proper sanitation.

On the first floor of the wing adjoining the main building is the main lecture hall, and in the rear of this is the amphitheatre for anatomical demonstrations. In the rear of the amphitheatre is the Anatomical Museum.

On the second floor of the wing are the anatomical laboratories. In the center, and occupying a large part of the floor space, is the main dissecting hall, which has a cement floor and is lighted by six large windows and two skylights. On either side of a short corridor at the front are two private laboratories for special dissections, and at the end of the corridor the two laboratories for the instructors. The latter are entered from the upper hall of the main building. In the rear of the main dissecting hall are the lavatory and locker rooms.

The basement of the wing is divided by a solid brick wall from east to west. On the north of this wall are the storerooms, a photographic room, a room for the refrigerating and gas plant; on the south side are the storage tanks for cadavers, the incinerator, and other arrangements for the care of anatomical material. In the rear end of the basement is an entrance hall containing the elevator and the stairs leading to the amphitheatre and the dissecting hall. The dissecting hall is supplied with hot and cold water.

The laboratories are well equipped with apparatus for the use of the students and the research work of the teachers. Animals are available in adequate numbers for all proper experimental work.

THE PHAMACEUTICAL LABORATORIES

Person Hall is occupied by the School of Pharmacy. It contains ten rooms, each equipped with water, gas, and electricity. It is well supplied with light and ventilation.

The front part of the building contains a lecture room, a library,

and a research laboratory. The lecture room has a seating capacity of seventy-five students. In this room are exhibited many rare and expensive chemicals, antitoxins and serums, standardized galenicals, and preparations made by various students. These exhibits serve to illustrate lectures. The library was inaugurated by the Class of 1897. In it are filed a large number of medical and pharmaceutical journals, and it contains a well-selected group of text, historical, and reference books.

The body of the building is made up of three laboratories and an office. These laboratories are for the first, second, and third year pharmacy students. Each student is supplied with an individual desk with lock, in which is stored all the equipment and apparatus necessary for the work. These desks are supplied with both water and gas. Suitable balances are distributed at convenient points throughout the laboratories.

The back wing of the building contains a prescription and gas room and a large lecture room for the courses in materia medica and botany.

THE PHYSICAL LABORATORIES

The Physical Laboratories occupy the west end of the main floor of Phillips Hall. There is a large laboratory for General Physics, a laboratory for advanced work, a photographic dark room and two large apparatus rooms. One of these adjoins a large lecture room with a seating capacity of three hundred. The lecture room and laboratories are all equipped with gas, running water and electric power.

THE CIVIL AND SANITARY ENGINEERING LABORATORIES

The new Civil and Sanitary Laboratories occupy the east end of the ground floor, of Phillips Hall. The materials testing laboratory contains a 100,000 pound Universal testing machine, upon which the usual tests of compression, tension, torsion, cross-bending, etc., can be performed on the various materials of construction. A large briquet testing machine is available for performing the standard tension tests on cement and such accessory apparatus for cement tests as Vicat needle, molds, moist closets, etc. There is special provision for making tests on road materials, including sieves, viscosity apparatus, etc.

The Hydraulic Laboratory equipment includes apparatus for performing hydraulic experiments on orifices, nozzles, guages, pipes, etc. Pitometer measurements are made of flow of water in the town distribution system. Measurements on the flow of water

in channels are conducted on a small stream nearby by means of weirs and current meter. It is planned during the year to install a small flume for the testing of water wheels and turbines.

The Sanitary Engineering laboratory offers facilities for experiments and investigations of flow of water through sand filters, the performance of physical, chemical, and bacteriological tests on water, sewage, milk, etc., and for special studies relating to water purification and sewage treatment.

THE ELECTRICAL ENGINEERING LABORATORIES

The Electrical Laboratories are located in the west end of the ground floor of Phillips Hall. The large dynamo laboratory contains more than forty generators, motors and transformers ranging in size up to 40 horsepower. The large seven panel slate switchboard distributes direct and alternating current power by means of a plug and socket system to 25 sub-panels located in the dynamo laboratory and the other special laboratories. Eight wires run from the main switchboard to each of these sub-panels giving a very flexible system of power distribution.

The following sources are available: 3-phase alternating current power at 110 volts, 220 volts or 2300 volts: direct current power from a 220 ampere hour storage battery at 120 volts. There is also a 5 kilowatt low voltage set with a capacity of 500 amperes at 12 volts or 1000 amperes at 6 volts.

The standardization laboratory is equipped with precision standards for direct current measurements up to 600 volts and 1000 amperes and for alternating current measurements up to 2300 volts and 200 amperes.

The photometric laboratory is equipped with a standard Reichsanstalt photometer bench with three-meter track, Bunsen screen, Lummer-Brodhun disappearance and contrast screens, standard Hefner lamp, a number of certified carbon and tungsten incandescent standards; a compound rotator, a luxometer for illumination surveys and a number of shades and reflectors of various types. The laboratory is also supplied with constant potential and constant current arc lamps, direct and alternating current types, a 4-ampere magnetite arc, 12-ampere flaming-arc and a 3.5 ampere mercury-arc.

The radio laboratory is equipped with receiving sets for the reception of damped and undamped waves up to a maximum of 25,000 meters. It is well supplied with coils and condensers and a number of thermionic tubes for receiving and transmitting.

A complete General Electric oscillograph equipment has just been added to the laboratory.

THE POWER PLANT AND MECHANICAL ENGINEERING LABORATORY

The University Power Plant is located just back of Phillips Hall in which are the Civil and Electrical Engineering laboratories. This plant furnishes electric lights, power and water for the town of Chapel Hill and electric lights and power, water and heat for the University buildings.

The plant was built in 1916 and was designed with a view to its use as a Mechanical Engineering Laboratory. It has an ultimate capacity of 1000 horsepower. At present the boiler room contains two 168-horsepower Babcock and Wilcox boilers supplying steam at 200 pounds pressure, a 500-horsepower Cochrane feed water heater and a full equipment of boiler room auxiliaries. It also contains two large exhaust steam heaters and a live steam heater for the hot water heating system which supplies all University buildings. All of the apparatus is supplied with a full complement of flow meters, gages, thermometers, etc., so that a complete test may be run on this part of the plant.

Adjoining the boiler room is the pump room which contains a 4-in. two stage centrifugal service pump driven by a 20-horsepower Crocker-Wheeler motor, a 50-horsepower DeLaval turbine driven centrifugal pump for circulating the water in the heating system and a 1000-gallon per minute fire pump driven by a 100-horsepower Westinghouse motor.

The engine room located over the pump room contains a 200-kilowatt three phase, 2300 volts General Electric turbo generator, a 35-horsepower Ball Engine and a small reciprocating engine for valve setting experiments. The turbo alternator has a direct connected exciter and there is also a 10 kilowatt motor generator exciter set. The electrical equipment is controlled by a five panel remote-control switchboard made by the General Electric Company. All of the high tension switches are located in an enclosure in the pump room below. The enclosure also contains an 8 kilowatt constant current transformer for the campus lighting and street lighting of Chapel Hill and a 2300 volt standard compensator controlling the centrifugal pump which pumps the water supply from a small creek a mile north of the town. The laboratory is equipped with calorimeters, flow meters, thermometers, Orsat apparatus for flue gas analysis, indicators and other accessory apparatus necessary for making complete tests on power plants.

THE UNIVERSITY LIBRARY

The University Library contained at the end of the academic year eighty-eight thousand three hundred and sixteen volumes and

several thousand pamphlets. This collection has been largely classified and catalogued according to the Dewey decimal system, and the greater part of its contents have been rendered easily accessible by means of a thorough dictionary author, title, and subject card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is about four thousand five hundred volumes, all of which are carefully classified and catalogued as they are received.

The Librarian and those assisting in the Library are constantly in attendance to give help in any line of research or reading. A special collection of dictionaries, encyclopedias, almanacs, handbooks, atlases, concordances, and other reference books is provided for general use in the reference room.

In addition to the resources of the general reference room, the Library places at the disposal of students for reference purposes a collection of ten thousand bound periodicals covering all fields of general, technical, and professional information. A great number of the sets belonging to this collection are complete from their beginning, and consequently completely cover the history and progress of the subjects of which they treat. In this way students pursuing general academic and special technical or professional courses have access to the best American, English, and Continental periodical literature to be found on their subjects. The articles contained in these files are fully indexed in special periodical indexes and are referred to with ease.

Eight hundred and fifty-four current periodicals, transactions of literary, scientific, historical and other societies, university studies, serial publications, and a half hundred daily and weekly newspapers, continuing and supplementing the bound sets, are subscribed for or secured through exchange annually. They are to be found in the general periodical room and in the seminars, professional schools, and scientific laboratories, where they can be consulted in the course of daily work.

As the Library is a depository for the publications of the United States Government, it contains more than seven thousand volumes of material especially valuable for reference in debate, and in the

study of social and political sciences, useful arts, and the natural sciences. This collection is thoroughly indexed and its contents are easily consulted.

Five special seminar rooms have been equipped in the general Library to facilitate advanced work in English and German Literatures and Languages, Greek and Latin Literatures and Languages, the Romance Literatures and Languages, History, and North Carolina History. Special scientific and professional collections are to be found in the libraries or seminars belonging to the departments in which such instruction is given. These collections are under the supervision of the instructors in the respective departments and the Librarian, and aid is given students in the use of books relating to their work.

The North Carolina room contains all the books in the Library which relate to North Carolina, including the Weeks collection of Caroliniana, which is rapidly being catalogued and made available. The whole makes one of the finest collections on the history of this State in the country, and with its special librarian, whose thorough knowledge of the books adds greatly to their value and use, offers rare advantages to the research student.

The main Library is housed in a commodious modern library building erected in 1907, and represents an expenditure for construction and equipment of $74,000. The reference, current periodical, and seminar rooms in the main Library are large, well lighted, and have table and seating capacity for two hundred students at one time.

The stack room contains three levels of steel shelving with stairway and glass mezzanine floor between and, with its present complement of shelving, capacity for one hundred and five thousand volumes.

Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of each year, and to any student at any time who may request it. Instruction in a regular University class is also given to students who are preparing for positions in school and public libraries, with a view to making them more efficient in the discharge of their special duties.

The Library is open on week days from 8:30 a. m., to 1:10 p. m., and from 2:00 p. m., to 6:00 p. m.; on week-day evenings,

Saturday excepted, from 7:30 p. m., to 9:30 p. m.; on Sundays, from 2:30 p. m., to 4:30 p. m.; on University holidays, from 3:00 p. m. to 4:00 p. m.

The following rules are considered necessary for the proper use of the Library. They will be enforced with strict impartiality:

Subscribers to the Library are the students and members of the faculty.

Other persons who desire to use the Library may become subscribers on payment of the regular Library fee.

The Library fee is four dollars a year, two dollars a term, or fifty cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Not more than three books may be charged to one name at the same time.

Fines for books kept over fourteen days (including the day of issue) will be imposed with exact regularity at the rate of five cents per day. Books borrowed for debate or for class use may be kept out from 8:30 p. m., until 10 a. m., of the following day. After that hour they are subject to a fine at the rate of five cents per hour. The date on the pocket or flyleaf of book is sufficient notice when the book is due.

Failure to pay fines within three weeks from the time they are due will debar the delinquent from further use of the Library.

Books from the reference room must remain in the Library.

Unbound magazines must not be removed from the Library. Bound volumes are subject to the regulations applying to debate books.

Mutilation of books, or magazines, or defacement by writing in them, must be paid for by purchase of a new copy.

Any conversation in the Library, except to obtain books desired, is forbidden.

Continued disregard for any of these rules will cause the offender to forfeit the right to use the Library.

ADMISSION

ADMISSION TO THE UNIVERSITY

Candidates for admission to the University are received by certificate from accredited schools or by examination.

Entrance By Certificate. Students who present certificates of work accomplished at preparatory schools and colleges may be admitted without examination, provided the certificates are approved. The right to examine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar, and should be sent in as early as possible in the summer vacation; the uniform entrance certificates of the Association of Colleges and Preparatory Schools of the Southern States will also be accepted. Candidates must present themselves in person before the Committee on Entrance Certificates in the Alumni Building during the period of registration (*September 21, 22, 1920*).

Entrance By Examination. Entrance examinations are held in September. Arrangements have been made with certain schools in the State whereby examinations for admission may be held in May, also, at the schools. The University will accept the uniform entrance examination papers of the Association of Colleges and Preparatory Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. The University will accept also the certificates of the College Entrance Examination Board. Candidates for admission by examination must report at 9 a. m., *Tuesday, September 21, 1920,* to the Registrar, who will appoint time and place for examination.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, with or without complete examination. He is subject not only to the examinations required of candidates for admission into the Freshman Class, but to special examinations both in all the required studies already pursued by the class which he desires to enter and in as many elective studies as would have been required of him as a member of that class. When satisfied with the apparent fitness of the candidate, the examining committee may, in spite of his deficiencies in some studies, admit him to an advanced class; but a candidate so ad-

mitted is not recommended for the degree until the deficiencies are made good. The examining committee may accept, also, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing in place of an examination upon such previous work. All credits allowed by this committee stand in suspense until the candidate shall have spent one quarter in residence. If his work during this quarter is unsatisfactory, the credits may be canceled.

A candidate for advanced standing should present himself to the Committee on Advanced Standing which meets in the Registrar's Office each night during the registration period at 8:00 p. m. An official report of the work of the candidate at the college last attended should be sent to the Registrar not later than September 15.

Subjects Accepted for Entrance

The complete list of subjects accepted for entrance is as follows:*

English, *a, b, c*	3.	units
History, *a, b, c*	3.	units
Mathematics, *a, b, c, d*	4.	units
Greek, *a, b, c*	3.	units
Latin, *a, b, c, d, e*	4.7	units
French, *a, b*	3.	units
German *a, b*	3.	units
Spanish, *a,*	2.	units
Botany	1.	unit
Chemistry	1.	unit
Physics	1.	unit
Zoology	1.	unit
Drawing	1.	unit
General Science	1.	unit
Physiography	1.	unit
Civics	.5	unit
Physiology	.5	unit

Vocational Subjects:

Commercial Geography	.5	unit
General Agriculture	1.	unit
Bookkeeping	1.	unit
Commercial Arithmetic	1.	unit
Stenography and Typewriting	1.	unit
Manual Training	2.	units

*For specific requirements in each of the subjects in this list, see pages 52-57.

It will be noticed that each subject has a valuation by units. A unit means a definite amount of a subject satisfactorily completed in a reasonable length of time. For example, one unit in History means the satisfactory completion of a standard text-book in United States History in a period of study continuing through an entire High School session; one-half unit in Civics means the completion of a standard text in Civics in about one-half a session; the fifteen units mentioned below correspond to the four years of work in a good high school.

Unconditioned entrance to the undergraduate departments of the University requires a total of 15 units selected from the list above.

At the discretion of the Committee on Entrance Certificates, candidates may be admitted with conditions provided the total number of units offered does not fall below the minimum of 13 units, and *provided the conditions are of such nature that in the judgment of the Committee, they may be removed according to the regulations given in the next paragraph.* The Committee has the discretionary power to admit certain candidates whose credits fall below 13 units, if, in the opinion of the Committee, the maturity of the candidate, who must be at least twenty-one years of age, justifies such action. Candidates thus admitted will be classed as special students.

Entrance conditions in any subject must be made up by September of the following year. A student who fails to comply with this regulation will not be allowed to register for any course in his Sophomore year.

The requirements in each of the subjects accepted for entrance are as follows:

ENGLISH: (1920-1922) (*a*) Grammar and Rhetoric.... 1. unit
(*b*) Classics for Reading..... 1. unit

Two from each of the following groups:

GROUP I.—CLASSICS IN TRANSLATION.

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

GROUP II.—SHAKESPEARE.

Shakespeare's *Midsummer Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V,* and *Coriolanus;* and, if not chosen for study, *Julius Cæsar, Macbeth,* and *Hamlet.*

GROUP III.—PROSE FICTION.

Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress,* Part I; Swift's *Gulliver's Travels* (voyage to Lilliput and to Brobdingnag); Defoe's *Robinson Crusoe,* Part I; Goldsmith's *Vicar of Wakefield;* Frances Burney's *Evelina;* Scott's Novels, any one; Jane Austen's Novels, any one; Maria Edgeworth's *Castle Rackrent,* or *The Absentee;* Dicken's Novels, any one; Thackeray's Novels, any one; George Eliot's Novels, any one; Mrs. Gaskell's *Cranford;* Kingsley's *Westward Ho!* or *Hereward, the Wake;* Reade's *The Cloister and the Hearth;* Blackmore's *Lorna Doone;* Hughes's *Tom Brown's Schooldays;* Stevenson's *Treasure Island,* or *Kidnapped,* or *Master of Ballantræ;* Cooper's Novels, any one; Poe's *Selected Tales;* Hawthorne's *The House of Seven Gables,* or *Twice Told Tales,* or *Mosses From an Old Manse;* A collection of short stories by various standard writers.

GROUP IV.—ESSAYS, BIOGRAPHY, ETC.

Addison and Steele's *The Sir Roger de Coverly Papers,* or Selections from the *Tatler and Spectator* (about 200 pages); Boswell's Selections from the *Life of Johnson* (about 200 pages); Franklin's *Autobiography;* Irving's Selections from *The Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey's *Life of Nelson;* Lamb's Selections from the *Essays of Elia* (about 100 pages); Lockhart's Selections from the *Life of Scott* (about 200 pages). Thackeray's Lectures on Swift, Addison, and Steele in the *English Humorists;* Macaulay's any one of the following essays: *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madam d'Arblay;* Trevelyan's Selections from the *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies,* or Selections (about 150 pages); Dana's *Two Years Before the Mast;* Lincoln's Selections, including at least the two *Inaugurals,* the *Speeches in Independence Hall* and at *Gettysburg,* the *Last Public Address,* the *Letter to Horace Greeley,* together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail;* Thoreau's *Walden;* Lowell's Selected Essays (about 150 pages); Holmes's *The Autocrat of the Breakfast Table;* Stevenson's *An Inland Voyage* and *Travels with a Donkey;* Huxley's *Autobiography* and selections from *Lay Sermons,* including the addresses on *Improving Natural Knowledge,*

A Liberal Education, and *A Piece of Chalk.* A collection of essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers. A collection of letters by various standard writers.

GROUP V.—POETRY.

Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for class study); Goldsmith's *The Traveler* and *The Deserted Village;* Pope's *The Rape of the Lock;* a collection of English and Scottish ballads, as, for example, some Robin Hood ballads, *The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens,* and a selection from later ballads; Coleridge's *The Ancient Mariner, Christabel,* and *Kubla Khan;* Byron's *Childe Harold,* Canto III or IV, and *The Prisoner of Chillon;* Scott's *The Lady of the Lake,* or *Marmion;* Macaulay's *The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry;* Tennyson's *The Princess,* or *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus—," Instans Tyrannus;* Arnold's *Sohrab and Rustum,* and *The Forsaken Merman;* selections from *American poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.*

(*c*) Classics for Study..... 1. unit

One selection from each of the following groups:

GROUP I.—DRAMA.

Shakespeare's *Julius Cæsar, Macbeth, Hamlet.*

GROUP II.—POETRY.

Milton's *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Tennyson's *The Coming of Arthur, The Holy Grail,* and *The Passing of Arthur;* the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

GROUP III.—ORATORY.

Burke's *Speech on Conciliation with America;* Macaulay's two speeches on *Copyright,* and Lincoln's speech at Cooper Union; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration.*

GROUP IV.—ESSAYS.

Carlyle's essay on *Burns*, with a selection from Burn's Poems; Macaulay's *Life of Johnson;* Emerson's essay on *Manners*.

MATHEMATICS: (*a*) Elementary Algebra..... 1. unit

A high school algebra to quadratic equations.

(*b*) Advanced Algebra ..... .5 or 1. unit

Review of elementary algebra and quadratic equations, binomial theorem, and progressions.

(*c*) The whole of Plane Geometry..... 1. unit

(*d*) The whole of Solid Geometry..... .5 unit

(*e*) Trigonometry ..... .5 unit

Plane trigonometry and spherical trigonometry through right triangles.

GREEK: (*a*) Grammar and Composition..... 1. unit

Acquaintance with the more usual forms and constructions; simple narrative in English, based upon Xenophon's Anabasis, to be translated into Greek.

(*b*) Xenophon ..... 1. unit

The first four books of the Anabasis.

(*c*) Homer ..... 1. unit

The first three books of the Iliad (omitting II, 494—end), with study of Homeric forms, constructions, and prosody.

LATIN: (*a*) Grammar and Composition..... 1. unit

Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.

(*b*) Cæsar ..... 1. unit

The first four books of the Gallic War.

(*c*) Cicero ..... .7 unit

The four orations against Catiline.

(*d*) Vergil ..... 1. unit

The first six books of the Æneid, study of hexameter verse.

(*e*) Cornelius Nepos ..... 1. unit

The first fifteen lives.

FRENCH: (*a*) Elementary (Two-year course)..... 2. units

The forms and uses of the various parts of speech, including irregular verbs; translation of 250 or more pages of easy prose into idiomatic English; translation of simple English sentences into French; pronunciation.

(*b*) Intermediate ..... 1. unit

Translation of 400 or more pages of French of ordinary difficulty.

GERMAN: (*a*) Elementary (Two-year course)..... 2. units
Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; translation of simple English sentences, based upon passages read, into German.

(*b*) Intermediate ..... 1. unit
Translation of 400 or more pages of German of ordinary difficulty.

SPANISH: (*a*) Elementary (Two-year course)..... 2. units
Inflection, including the most common irregular verbs; ordinary laws of syntax; translation of 250 pages or more of easy Spanish into idiomatic English; translation of simple English sentences, based upon the passages read, into Spanish.

GENERAL SCIENCE:* ..... .5 or 1. unit
A course such as is contained in Caldwell and Eikenberry's General Science; laboratory work. Holden's Real Things in nature will not be credited for this work.

BOTANY:* ..... .5 or 1. unit
A course such as is contained in any standard text-book; laboratory work.

CHEMISTRY:* ..... .5 or 1. unit
A course such as is contained in any standard text-book; laboratory work.

PHYSICS:* ..... .5 or 1. unit
A course such as is contained in Millikan and Gale's Physics or Carhart and Chute's High School Physics; laboratory work such as is outlined in Millikan and Gale's Physics.

ZOOLOGY:* ..... .5 or 1. unit
A year's course such as contained in any standard text-book; laboratory work.

PHYSIOGRAPHY:* ..... .5 or 1. unit
A course such as is contained in any standard text-book.

PHYSIOLOGY: ..... .5 unit
A course such as is contained in any standard text-book.

*A credit of one unit is given only when the course is accompanied by laboratory work, a suitable record of which is kept in a notebook. In case the laboratory work is omitted only .5 unit will be allowed.

CIVICS: ..... .5 unit
A course such as is contained in any standard text-book.

DRAWING: ..... 1. unit
A year's work, including simple geometrical plane and solid figures, simple pieces of machinery, elementary rules of perspective, light and shade, as applied in freehand sketching.

VOCATIONAL SUBJECTS

The University will accept, as elective units for entrance, work in the vocational subjects outlined below, to the value of two units for entrance to the College of Liberal Arts, and three units for entrance to the School of Applied Science. Credit will be allowed for these subjects only after special investigation as to the merit of the work done. The content of these courses is essentially the same as that adopted by the Association of Colleges and Preparatory Schools of the Southern States.

GENERAL AGRICULTURE: ..... 1. unit
A one year course consisting of three recitation periods and two double laboratory periods a week, extending through one school year. In case the laboratory work is omitted only .5 unit will be allowed.

BOOKKEEPING: ..... 1. unit
A one year course covering the simple forms in single and double entry bookkeeping.

COMMERCIAL ARITHMETIC: ..... 1. unit
A one year course such as is contained in any standard text-book of commercial or business arithmetic.

COMMERCIAL GEOGRAPHY: ..... .5 unit
A half-year course such as is contained in any standard text-book.

STENOGRAPHY AND TYPEWRITING: ..... 1. unit
Credit will be allowed for work in these two subjects only if presented together. Neither subject will be credited separately.

MANUAL TRAINING: ..... 2. units
A total of not more than two units may be presented from the list of courses in shop work recommended by the Committee on Manual Training of the Southern Commission on Accredited Schools. The time required for each unit is to be not less than 240 sixty-minute hours.

PRESCRIBED SUBJECTS

The subjects which a student offers for admission should be chosen with a view to conforming to the following specific requirements of the College or School which he wishes to enter:

COLLEGE OF LIBERAL ARTS

English *a, b, c,*		3.	units
History *a,*		1.	unit
Mathematics *a, b, c,*		2.5	units
Select two: Greek *a, b,* 2. units; Latin *a, b, c, d,* 3.7 units; German *a,* 2. units; French *a,* 2. units; Spanish *a,* 2. units	4. or	5.7	units
Electives	4.5 or	2.8	units
Total		15.	units

SCHOOL OF APPLIED SCIENCE

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c, d,*	3.	units
French *a* or German *a* or Spanish *a*	2.	units
Science	1.	unit
Electives	5.	units
Total	15.	units

SCHOOL OF EDUCATION

The requirements for admission to the School of Education are the same as for admission to the College of Liberal Arts.

SCHOOL OF COMMERCE AND FINANCE

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c,*	2.5	units
Select two: Greek *a, b*; Latin *a, b*; German *a*; French *a*; Spanish *a*	4.	units
Electives	4.5	units
Total	15.	units

THE SCHOOL OF LAW

Candidates for the Degree of LL. B.

Students who are candidates for the degree of LL.B. must have completed eighteen courses, or their equivalent, of college work in subjects approved by the Law Faculty in the University. For the present students may be admitted with a minimum of fourteen courses, or their equivalent, provided they make up the remaining four courses at the Summer Schools of the University.

Students not Candidates for the Degree

Students taking regular work in the school, but not candidates for the degree, must, unless they are "special students," be able to matriculate in the Freshman class of the University.

Special Students

Men twenty-one years of age may for the present be admitted as special students upon satisfying the Law Faculty that they have such training as will enable them to profit by the instruction given in the School.

Admission to Advanced Standing

A student from another law school in which the requirements for admission are at least as high as in this school, may be admitted to advanced standing for the degree of LL.B. As a rule no more than one year's work will be so credited without residence, but with the consent of the Law Faculty, two years work may be credited in exceptional cases. A student seeking admission to advanced standing must present satisfactory evidence that the work taken in another school is substantially equivalent to that given in the corresponding year here, both in the character of the work covered and in the amount of time devoted to each subject.

THE SCHOOL OF MEDICINE

I. Requirements for Admission to the Pre-Medical Course:

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c,*	2.5	units
Select one: Greek *a, b*; Latin *a, b*; German *a*; French *a*; Spanish *a*	2.	units
Electives	5.5	units
Total	14.	units

II. Requirements for Admission to the course leading to the degree of S.B. in Medicine:

English *a, b, c,*	3.	units
History *a,*	1.	unit
Mathematics *a, b, c,*	2.5	units
Select one { German *a*, French *a*, Spanish *a* }	2.	units
Electives	6.5	units
Total	15.	units

III. Requirements for Admission to the Medical Course. The requirements for admission to the medical course are 2 years (60 semester hours) of college work, which must include a minimum of twelve semester hours in Chemistry (including 4 semester hours of Organic Chemistry), eight semester hours in Biology, eight semester hours in Physics, six semester hours in English, and six semester hours in a Modern Language (French or German). *Students will not be admitted with less than the total of sixty semester hours, nor with less than the required number of hours in Science and Language subjects.*

IV. Admission to Advanced Standing. Candidates for admission to the second year of the medical course must present certificates from an accredited medical school stating that they have had the required fourteen units, the two years of college work as indicated in Section II, and have completed the subjects of the first year of the medical course as outlined on page 139.

THE SCHOOL OF PHARMACY

Candidates for the degrees of Ph.G., Ph.C., or P.D. must be on entering at least seventeen years old, and must have completed either a high school course of study or must present evidence of 14 units. They may, however, enter a one-year special course without this prerequisite.

EXPENSES

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The entire annual expenses need not exceed $400 and they frequently may be reduced to $300.

TUITION

College of Liberal Arts:

Tuition fee each quarter	$20.00
*Matriculation fee each quarter	10.00
Total each quarter	$30.00

School of Applied Science:
Same as for the College.

School of Education:
Same as for the College.

School of Commerce:
Same as for the College.

Graduate School:
No tuition.

School of Law:

Tuition for Fall and Spring Terms, each	$37.50
Registration Fees, each Term	15.00

School of Medicine:

Tuition fee, including all fees (except damage fee), each quarter	$50.00

School of Pharmacy:
Same as for the College.

FEES

Damage Fee: Each student must keep on deposit with the Treasurer $2 as security for damages. Wilful damage to University property is charged to the perpetrator, if known; otherwise it is charged to the general deposit for damages. Any balance is returned to the student at the end of the year.

*This fee includes the gymnasium fee, the library fee, the fee for attendance of the University physician and of the University nurse, and the fee for athletics.

LABORATORY FEES: Every student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are as follows:

ACCOUNTING

1-2-3 $1.00 a quarter

BOTANY

1	$3.00	5	$3.00
2	3.00	6-7-8	3.00 a quarter
3-4	3.00 a quarter		

CHEMISTRY

1-2	$3.00 a quarter	62	$5.00
21-22-23	7.50	63	5.00
27-28-29	10.00 a quarter	70	5.00
31	10.00	71	4.00
41	7.50	72	4.00
42	7.50	73	4.00
44	5.00	77-78-79	10.00 a quarter
45	5.00	81	2.50
46	5.00	82	2.50
47	5.00	97-98-99	10.00 a quarter
61	5.00		

ELECTRICAL ENGINEERING

1-2-3	$3.00 a quarter	40-41-42	$3.00 a quarter
10-11-12	6.00 a quarter	43	3.00
20-21-22	3.00 a quarter	44	3.00
30-31-32	3.00 a quarter	45	3.00
33-34-35	3.00 a quarter		

GEOLOGY

1-2	$2.50 a quarter	12	$2.00
3-4	5.00 a quarter	13	2.00
5-6	2.00 a quarter	14	3.00
7	3.00	21-22	2.50 a quarter
8-9	5.00 a quarter	23-24	2.50 a quarter
10	5.00	25	2.00
11	2.00		

PHARMACY

4 $5.00 5 $7.50

PHYSICS

1 $2.50 2 $2.50

PSYCHOLOGY

10-11-12 $2.00 a quarter

ZOOLOGY

1	$5.00	5-6-7	$3.00 a quarter
2	5.00	8	5.00
4	5.00	9-10-11	5.00 a quarter

Board

Excellent board is furnished at Swain Hall for $22.50 a month. A few students can earn their board by waiting on the tables.

Board without room can be obtained in the town from $22.50 to $35 a month.

Dormitory Accommodations

Accommodations for something over five hundred students are available in the University dormitories. For a list of the dormitories see page 39.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillow, bed linen (single beds) and towels.

Room rent ranges from $3.00 to $8.00 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat and service.

PECUNIARY AID

FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux.) The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Library Fellowships, two in number, established in 1907, yield each $150 annually. The holders are expected to assist in the Library.

The Julian S. Carr Fellowship, endowed in 1916 by General Julian S. Carr. A fellowship valued at about $300 to be awarded at Commencement each year to a member of the rising Junior class or Senior class who has shown by the high scholastic quality of his work that he is worthy of help, and who, during his first years in college, has earned his way in whole or in part. The holder of this fellowship is selected by a faculty committee, and applications should be made before May 15.

The Cameron Scholarships. (Established in 1892.) The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $60 each.

The Dialectic and Philanthropic Literary Societies' Scholarships. (Established in 1893.) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of $60 each, recipients of which shall give assistance in the Library.

The Moore Scholarships. (Established in 1881.) Bartholomew Figures Moore, of Raleigh, bequeathed $5,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ann Smith Scholarships. (Established in 1891.) Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Mary Ruffin Smith Scholarships. (Established in 1885.) Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract

of land in Chatham County of 1,460 acres, known as Jones' Grove. The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the faculty shall appoint.

The Speight Scholarships. (Established in 1892.) The late Mrs. Mary Shepard Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

The Wood Scholarship. (Established in 1892.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $60.

The Weil Scholarship. (Established in 1898.) A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $60.

The Armfield Scholarships. (Established in 1901 and 1904.) These scholarships are founded by the generosity of Mr. Eugene M. Armfield, of the Class of 1888, High Point, N. C.

The Alumni Scholarships. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each $1,000 given.

The Kenneth Murchison Scholarships. (Established in 1904.) These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

The R. H. Lewis Scholarships. Four scholarships, endowed by the University Gymnasium Association and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

The Donald Fairfax Ray Scholarship. (Established in 1919.) Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

None of these scholarships is open to students in the Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before September 1, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the President.

FREE TUITION

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, to teachers, and to young men preparing to teach. In order to secure this free tuition, young men preparing to teach must agree to teach in North Carolina for at least two years after leaving the University. This enables the University to aid effectively the public school teachers of the State.

LOAN FUNDS

THE DEEMS FUND. (Established in 1879.) A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University.

THE MARTIN FUND. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1907-1908.

All applications for loans must be filed in the President's office on or before September 15.

Applications for loans will not be considered unless accompanied by testimony from responsible persons as to poverty and merit. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

SELF HELP

It is confidently believed that no institution offers wider opportunities for self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be

turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. A few students are selected by the authorities as waiters at Swain Hall. Otherwise, all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help. They are not assigned by the President.

MEDALS AND PRIZES

The Mangum Medal in Oratory. (Established 1878.) A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, is continued by his granddaughter, Mrs. Stephen B. Weeks, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

The Bingham Prize in Debate. (Established in 1899.) This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Tuesday evening of Commencement week.

The Kerr Prize in Geology and Mineralogy. (Established in 1889.) A prize of $50 is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Eben Alexander Prize in Greek. (Established in 1887.) A prize of $10 is offered annually to that member of the Sophomore Class who shall present the best rendering into English of selected passages of Greek not previously read.

The Worth Prize in Philosophy. (Established in 1883.) Mr. Charles Williams Worth, in memory of his father, David Easton Worth, of the Class of 1853, will print the best thesis submitted by a student in Philosophy 16-17-18.

The Early English Text Society Prize. (Established in 1886.) A special prize is offered annually by the Early English Text Society of London for advanced work in Anglo-Saxon and Middle English.

The Bryan Prize. (Established in 1903.) A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

The Hunter Lee Harris Memorial. (Established in 1903.) Dr. Charles Wyche, of St. Louis, offers annually, in memory of Hunter Lee Harris, of the Class of 1893, a gold medal for the best original story by any student in the University.

The William Cain Prize in Mathematics. (Established in 1908.) A gold medal is offered annually by Professor William Cain to that student who shall take the highest rank in Mathematics 11-12. No student will be recommended for the prize unless he attain to grade 2.

The Preston Cup, given by the Hon. E. R. Preston in memory of his brother, Ben Smith Preston, will be awarded annually to the undergraduate student who during the months September to April has done the best work of a journalistic nature.

Mary D. Wright Memorial Medal, given by Mr. P. E. Wright of Landis. A $25 gold medal will be awarded annually to the best speaker in the winning team of the two Literary Societies.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

REGULATIONS

REGISTRATION

All students are expected to present themselves for registration *Tuesday* or *Wednesday, September 21* or *22, 1920,* between the hours of 9 a. m. and 5 p. m., at the office of the Registrar. A delayed registration fee of $5 will be charged after these days and hours.

ARRANGEMENT OF COURSES

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take less than three nor more than three and one-half courses without special permission of the Faculty.

Students desiring to change their courses must make written application to the Committee on Courses for the desired change. The application will be considered by the committee and the instructors in the departments concerned, and will be granted only after a careful consideration of the facts in each case. No changes will be permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty. A fee of twenty-five cents will be charged for each item of change.

Candidates for more than one degree shall not offer the same elective in two courses nor a required study in on course as an elective in another.

ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Treasurer, at the beginning of each term, in the order of application.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract, subject to the following special rules:

In order to retain his room for the next session, a student must file with the Treasurer before May 20th a room contract properly signed. Double rooms must be signed for by both intending occu-

pants. The rooms thus signed for will be retained until the last day of registration, provided a deposit of $5 be paid by each intending occupant before August 1. The $5 deposit will be forfeited in case the signer or signers do not themselves occupy the room and pay the full rent. Rooms not signed for or forfeited by failure to pay at the proper date will be assigned in the order of application. No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty of violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture supplied in his room by the University.

CONDUCT

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be required to leave the University.

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification, and scholarship. In particular, no partial or incomplete classroom record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will be included, and such information will be given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

ATTENDANCE

Regular attendance upon lectures and recitations is required of all students.

In any term, absences are counted from the first regular meeting of each class. In no case will a student be considered present at any class until he has been registered as a member of that class.

Any student whose absences from a class during any month equal the number of scheduled meetings of the class for one week is required to stand a special examination on that month's work within the first two weeks of the succeeding month at an hour to be announced by the instructor. In the case of those whose absences in a given month reach the number indicated above, and who fail to stand the examination provided for such absences, it is left to the discretion of the instructor to retain them in his class.

Students who are absent from a class during the months of December, January, March, or June as much as 25 per cent of the scheduled meetings of the class must stand an examination for these months before being entitled to any grade on the term examination. This special examination is to be held in connection with the regular term examinations or at some time during the examination period.

Students who are absent during any term as much as 33⅓ per cent of the scheduled meetings of the class, except in case of prolonged sickness necessitating at least half the absences, may, at the discretion of the instructor, be debarred from the term examination.

Attendance at chapel is compulsory for all students in the University, except for members of the professional departments and for such others as are specially excused. Absence from chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the President or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

EXAMINATIONS

Regular examinations on all subjects are held at the close of each quarter. Excuses from examinations are granted only in case of absolute necessity.

Freshmen, Sophomores, and Juniors who have received the grade 5 (see page 74) in any subject will be given one, and only one, opportunity to make good the deficiency by special examination. Examinations on a subject may be made good in the follow-

ing September, according to the schedule given below, or at the next regular examination in the same subject. In case a student fails in the special examination, he must repeat the subject the next succeeding quarter. If the unremoved condition be in an elective subject not offered for the succeeding quarter, the student must take another elective of the same credit value.

Seniors who have received the grade 5, or have been officially excused, in any subject will be given but one opportunity to make good the deficiency by special examination, viz., during the next regular examination period in March or June.

Papers handed in at special examinations by students who have been officially excused from the regular examination will be graded. All others will be marked either "passed" or "failed." Students who hand in papers at regular examinations are considered to have relinquished any claim to grades on special examinations. Students who, through sickness or otherwise, are officially excused from regular examinations must consult with the Registrar with regard to arranging a special examination.

Students who absent themselves from regular examinations without having obtained an official excuse, and those who are present at the regular examinations, but do not hand in papers, are marked "absent." They are required to repeat the subject with a lower class, or, in case of an elective not offered later, to take another elective of the same credit value.

A student wishing a special examination in any subject must deposit an application in the office of the Registrar at least one week before the beginning of the period of examinations.

Each student is required to subscribe his name to the following pledge on every paper: *"I hereby certify that during this examination I have neither given nor received aid."* No paper without the pledge will be read.

The order of examinations for the removal of conditions in September, 1920, will be as follows:

Wednesday, September 22

10 A. M.	Latin	2:30 P. M.	Geology
	Botany		History

Thursday, September 23

10 A. M.	Physics	2:30 P. M.	Chemistry
	Greek		Philosophy
			Accounting

Friday, September 24

10 A. M.	English	2:30 P. M.	Zoology
	Education		Romance Languages

Saturday, September 25

10 A. M.	German	2:30 P. M.	Mathematics
	Civil Engineering		Economics
	Electrical Engineering		

STANDING

At the end of each quarter reports of the standing of all students in all the studies of the previous quarter are sent to parents or guardians. The reports are based upon the following system of marking:

Grade 1, 95-100 per cent.
Grade 2, 90- 95 per cent.
Grade 3, 80- 90 per cent.
Grade 4, 70- 80 per cent.
Grade 5, 60- 70 per cent.
Grade 6, below 60 per cent.

Students must attain a grade of 4 to pass in any study. Grade 5 indicates that the student is conditioned, but may remove the deficiency by special examination, as explained on page 72. Students receiving grade 6 in any study must take such study again with a lower class, or in case of an elective not offered later, must take another elective of the same credit value.

A student to be ranked as a Sophomore must have passed six courses; to be ranked as a Junior, fifteen courses; to be ranked as a Senior, twenty-six courses.

No first year student who fails to pass at least four courses, and no second or third year student who fails to pass six courses, shall be readmitted to the University the following year except by a special vote of the Faculty or a delegated committee of the Faculty.

CERTIFICATES

A certificate is granted to a student who has completed with credit in a department all work required for a degree, together with elective work in the same department. (For detailed statement of requirements, see under the several departments of instruction.)

GRADUATION

Each Senior will be officially informed by the Registrar in September of all deficiencies standing against him.

The number of orations in the contest for the Mangum Medal is limited to four. The candidates must be Seniors in the College or the School of Applied Science, and must announce their subjects to their respective Deans by February 1. The orations shall be delivered in private before a committee of the Faculty on May 1, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

ATHLETIC AND OTHER ORGANIZATIONS

1. No student will be allowed to take part in athletic contests, concerts, debates, etc., entailing absence from the University whose parent or guardian objects to such participation.

2. A student who was in attendance upon the University during a previous quarter must have passed satisfactory examinations upon at least two courses of work before he will be allowed to represent the University in any athletic contest or in any other public capacity.

3. No student reported as deficient in a majority of his classes may participate in any athletic contest or otherwise publicly represent the University until the deficiency is made good.

4. No team or club will be allowed to be absent from the University for more than ten lecture days during the term.

5. The manager of each athletic team or musical club shall submit to the Athletic Committee or to the President a schedule of all engagements before positive arrangements are made.

6. No student shall play upon the University athletic teams except after physical examination by the Director of the Gymnasium (or by a responsible expert officer of the University acting in his stead and by his request) and with the approbation of the Director.

7. Inasmuch as a member of an athletic team of this University is a representative student and enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable. A preliminary report of the scholastic standing of the members of the football team shall be called for on October 15 and of the baseball team on March 15, and the players notified of their defi-

ciencies. Another report shall be called for on November 15 for the football team and on April 15 for the baseball team, at which time any player deficient in a majority of his studies shall be debarred from representing the University during the remainder of the term.

8. The members of any athletic team may be allowed not more than ten lecture days leave of absence from the University for the purpose of engaging in athletic contests, but no student who is a member of more than one athletic team shall be allowed more than twenty lecture days leave of absence during the entire session for such purpose.

9. Before any student can become a member or a substitute member of any athletic team in the University and take part in any intercollegiate contests he must make application to the Faculty Committee on Athletics in the University and secure the indorsed approval of that committee to his application. It shall be the duty of the Faculty Committee on Athletics to have the executive officers of the University indorse such application to the effect that the applicant is a registered student of the University.

10. It shall be the duty of the Faculty Committee on Athletics to inquire into and make a record of the athletic experiences of the applicant, and it shall be the duty of the applicant to appear before the committee and answer on his honor such questions as the committee may see fit to ask.

11. It shall be the duty of the Faculty Committee on Athletics to require a pledge in writing of the applicant, certifying on his honor that he has never accepted, directly or indirectly, remuneration, compensatory gift, valuable consideration, or promise thereof, for his athletic services, and that he is in the proper and strict sense of the word an amateur player in collegiate athletic sports, before the committee indorses his application.

12. It shall be the duty of the graduate manager, the head coach, the president and the treasurer of the Athletic Association, the members of the Athletic Council, the director of the gymnasium, and the manager and the captain of the team concerned to furnish the Faculty Committee on Athletics, on request, a statement to the effect that each member of an athletic team is above their suspicion as to his eligibility to represent the University as an amateur player before such player shall be allowed to take part in any contest.

13. No student shall participate in any intercollegiate football or baseball contest during his first college year; and in no case shall a student be eligible for these teams unless he shall have

registered in this University not later than within one week after the opening of the preceding winter term and shall have been a student here during the said term.

14. No person whose name appears in the catalogue list of officers of instruction and administration of the University, and who receives remuneration therefrom, shall be a member of any athletic team representing the University.

15. The maximum period of eligibility for baseball and football shall be four years. In estimating the period of eligibility the years of baseball and football shall both be taken into account; but in no case shall a player be charged with four years athletic work unless at least four calendar years have elapsed from the time he entered upon his first intercollegiate contest, omitting from the calculation any sessional intermission by nonattendance. In case the player does not participate in either baseball or football during a college session, such session shall not be counted, but if such player does play on either the baseball or football team during any intermediate session, this shall count as if the player had played on both teams during such session.

16. No student of this University shall be eligible for any athletic team who shall have played upon or been a member or substitute* member of any of the professional or league teams named in Classes A, B, C, and D in the publication of the American Sports Company. To the list of professional teams thus prescribed shall be added all league teams in any State or States which the leading university of such State or States declares professional and from which it debars its own players.

17. The Faculty Committee on Athletics is directed to assume responsible charge of the details of the athletic situation and to permit the playing of intercollegiate games with such colleges only as express a general conformity with the code of rules adopted by this faculty. The term "general conformity" is interpreted to mean conformity in regard to period of residence, maximum period of eligibility, and amateur standing.

FRATERNITIES

Undergraduate students may join fraternities after registration in their Sophomore year. Fraternity men are not allowed to pledge Freshmen to join fraternities.

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*The term "substitute" is interpreted to mean a student who has taken part in two or more intercollegiate contests.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. These functions are exercised by the Student Council and the Greater Council, respectively.

THE STUDENT COUNCIL

J. P. Washburn, *President.*
J. H. Kerr, *Secretary.*

J. A. McLean	J. C. Mills
R. N. Harden	E. E. White
R. B. Robbins	T. C. Wolfe

The Student Council is composed of eight members, as follows: the presidents of the three upper academic classes, one representative from each of the professional schools, one representative elected from the student body at large, and one representative elected by the other seven members of the Council. The member elected by the Council must be chosen from among those who have served on the Council before. The President of the Senior Class is *ex officio* Chairman of the Council, and the President of the Junior Class, *ex officio* Secretary.

Student government, in so far as it is disciplinary, is based upon the honor system. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The student Council is the head of the honor system. It is the concrete expression of the moral University. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses demanding withdrawal may be mentioned drunkenness, cheating on examination, and gambling.

THE CAMPUS CABINET

C. P. Spruill, *President*
J. S. Massenburg, *Secretary*

Members of the Cabinet

J. P. Washburn
J. H. Kerr
J. A. McLean
W. V. Woodard
W. R. Wunsch
C. L. Harrington
E. M. Whitehead
C. R. Sumner

The Campus Cabinet is an organization composed of representative students selected by the President of the Senior class. These representative students are chosen from the four academic classes, the Law, Medical, Pharmacy and Graduate Schools, and from the Young Men's Christian Association. The object of this organization is to study campus conditions and campus problems and to relate them to the "greater University." It attempts to work out all problems the solution of which would make life of the students more wholesome and more enjoyable. It is not an executive body, mainly, but a suggestive body. It takes up such questions as the social life of the students, the athletic situation as it concerns the entire student body, dormitory improvements, and many other things that it thinks will benefit the students. It is a flexible body and is always ready to discuss and aid any worth while matter that a student presents to it.

RESERVE OFFICERS TRAINING CORPS

The War Department has established at the University an infantry unit of the Reserve Officers Training Corps. The following is an extract from Special Regulations No. 44:

"The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions, for the purpose of qualifying selected students of such institutions as Reserve Officers in the military forces of the United States. It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers Training Corps in order that in time of national emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics, and fitted to lead intelligently the units of the armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the Reserve Officers Training Corps.

The Reserve Training Corps is organized under authority of Act of Congress of June 3, 1916, as amended by Acts of Congress of September 8, 1916, and July 9, 1918.

A military unit is largely dependent for its efficiency upon its physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support the physical training given by the civilian teachers, thus co-operating with all other effective agencies in an effort to promote a more vigorous American manhood.

The policy adopted by the War Department to carry out the provisions of the Act of Congress of June 3, 1916, is a matter of vital importance to every citizen interested in the educational

system of our country and the development of the American youth. It will aim to give all students of the Reserve Officers Training Corps a thorough physical training, to inculcate in them a respect for all lawful authority, to teach the fundamentals of the military profession, leadership, and the special knowledge required to enable them to serve efficiently in the various branches of the military service. The War Department aims to establish in selected civil educational institutions a system of training which will tend towards making better citizens and furnish a means whereby the graduates of such institutions can function more advantageously to the best interest of the nation in time of military necessity."

A student who elects to take the training in the University unit of the Reserve Officers Training Corps does so under the following regulations:

1. The freshman electing the work, accepts it as a prerequisite for graduation. He devotes to the course three hours per week. After he has completed the Basic Course, of the Freshman and Sophomore years, he decides whether he desires to continue the work to receive a Reserve Commission. If he is recommended by the President of the University and the Professor of Military Science and Tactics for such continuance, and if he desires to continue the work, he signs a written agreement with the Government as follows:

"In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers Training Corps during the remainder of my course in the University of North Carolina (not to exceed two years), to devote five hours per week during such period to the military training prescribed, and to pursue the course of camp training during such period, prescribed by the Secretary of War."

Commutation of subsistence is now paid at the rate of $12.00 per month. This sum is paid to the student during the last two years of his university course. The camp referred to above is held at the completion of his Junior year, and is for duration of six weeks. The student is furnished mileage to and from camp, and subsistence while there.

2. Complete uniforms, equipment and books are furnished to the students who elect this work. These uniforms must be worn during the hours of recitation and drill.

3. There is a camp held for those desiring to attend it at the completion of the Freshman year. Special uniforms are issued to the student for wear at this camp.

4. During the first two years of this course a student may be discharged from this work for sufficient reasons by obtaining the approval of the President of the University and the Professor of Military Science and Tactics.

5. Academic credit of one full course is given each year for this work.

PUBLIC LECTURES

ARCHIBALD HENDERSON, *Chairman, Committee on Public Lectures.*

THE JOHN CALVIN McNAIR LECTURES

The lecture fund established by the will of John Calvin McNair, of the class of 1849, became available in 1906, and the interest therefrom rendered it possible to begin the lectures in 1908. The honorarium for the lectures amounts to $500, and the remainder of the interest from the fund provides for the suitable publication of the lectures. Under the will the objects of the lectures "shall be to show the mutual bearing of science and religion upon each other and to prove the existence of attributes (as far as may be) of God from nature."

The lectures for 1908 were delivered by Professor Francis H. Smith, LL.D., of the University of Virginia. The three lectures were:

1. The general theme: God Manifest in the Material Universe.
2. His Attributes as Manifested in Physics.
3. His Attributes as Manifested in Astronomy.

The lectures for 1909 were delivered by President Francis Landey Patton, D.D., LL.D., of Princeton Theological Seminary, New Jersey. The four lectures were:

1. The Authority of the Bible.
2. The Authority of the Church.
3. The Authority of Christ.
4. The Authority of the Reason.

The lectures for 1910 were delivered by President David Starr Jordan, Ph.D., M.D., LL.D., of Leland Stanford, Jr., University, California. The lectures were on the theme:

The Stability of Truth.

The lectures for 1911 were delivered by Professor Henry Van Dyke, D.D., LL.D., of Princeton University. The three lectures were:

1. The Poetry of Nature.
2. The Poetry of Patriotism and Humanity.
3. The Poetry of the Unseen World.

The lectures for 1912 were delivered by President Arthur Twining Hadley, A.M., LL.D., of Yale University. The three lectures on the general subject, Some Tendencies of Modern Philosophic Thought, were:

1. Changed Conceptions of Science.
2. New Views of Ethics and of Politics.
3. The Spiritual Basis of Modern Literature.

The lectures for 1913 were delivered by Professor Francis G. Peabody, A.M., D.D., LL.D., of Harvard University. The three lectures were:

1. The Practicability of the Christian Life.
2. The Christian Life and the Modern Home.
3. The Christian Life and Modern Business.

The lectures for 1914 were delivered by President George Edgar Vincent, Ph.D., LL.D., of the University of Minnesota. The title of the series was The Social Vision, and the lectures were:

1. The Sense of the State.
2. The Larger Selfishness.
3. The Kingdom of God.

The lectures for 1915 were delivered by Professor John Dewey, Ph.D., LL.D., of Columbia University. The three lectures on the general theme, Philosophy and Politics, were:

1. The Division into the Inner and the Outer World.
2. The State and Moral Life.
3. The Philosophy of History.

The lectures for 1916 were delivered by Dean Frederick J. E. Woodbridge, A.M., LL.D., of Columbia University. The title of the series was The Purpose of History, and the three lectures were:

1. From History to Philosophy.
2. The Pluralism of History.
3. The Continuity of History.

The lectures for 1917 were delivered by Professor Hugh Black, M.A., D.D., of Union Theological Seminary. The title of the series was The Great Questions of Life, and the three lectures were:

1. Is God?
2. Has God Said?
3. Shall Man Say to God?

No lectures on this foundation were delivered in the war year, 1918. The lectures are to be resumed during the year 1919-20.

THE WEIL LECTURES

During the years 1914-1915 an unendowed lectureship on American Citizenship was established by the University. The first incumbent was ex-President William Howard Taft, who lectured on "The Presidency: Powers, Duties, Obligations and Responsibilities." Since that time this foundation, named the Weil Lectures on American Citizenship, has been permanently established through the generosity of the families of Mr. Sol Weil and Mr. Henry Weil, of Goldsboro, N. C.

The first incumbent on the Weil establishment (1915-1916) was Professor George Brinton McClellan of Princeton University. The title of the series was American Citizenship, and the three lectures were:

1. The Nation.
2. The Law.
3. The Citizen.

The series for 1916-1917 was delivered by Mr. James A. Macdonald, editor of the *Toronto Globe*. The title of the series was The North American Idea, and the lectures were:

1. The North American Idea in the American Republic.
2. The North American Idea in the Canadian Dominion.
3. The North American Idea and America's Internationalism.

There was no series delivered in 1917-1918, owing to war conditions.

The series for 1918-1919 was delivered by Professor Jacob H. Hollander of Johns Hopkins University. The title of the series was American Citizenship and Economic Welfare, and the lectures were:

1. The Weal of the Nation.
2. The Citizen as Producer.
3. The Citizen as Consumer.

UNIVERSITY LECTURES

The following University lectures were delivered during the session of 1918-1919:

Professor William O. Stevens, U. S. Naval Academy: John Paul Jones, Father of the American Navy, November 8, 1918. The Story of the Submarine, November 9, 1918.

Professor William Starr Myers, Princeton University: After the War: What? December 2, 1918.

Mr. Hamlin Garland: Songs and Stories of the Middle Border, March 6, 1919.

Mr. Charles Zueblin: World's Visions and Revisions, April 16, 1919.

Captain Lyman A. Cotten, U. S. Navy: Sub-chasing in the English Channel, April 28, 1919.

THE SOUTHERN EXCHANGE LECTURESHIP

In 1914 an exchange lectureship was established by Vanderbilt University, the University of Virginia, the University of South Carolina and the University of North Carolina. Under the terms of this lectureship each university will send a lecturer to and will be visited by a lecturer from one of the other universities participating in the lecture foundation. The purposes of this lectureship are: to promote scholarship, to present in concrete form recent advances in some special branch of learning, and to bring the institutions concerned into closer relationship through exchange of ideas in regard to all vital problems affecting a modern university.

The exchange lecturer to the University for 1916-1917 was Professor H. C. Tolman of Vanderbilt University. Professor William Cain delivered the lectures at Vanderbilt University.

During the war period these lectures were discontinued. They are to be resumed in 1919-1920.

UNIVERSITY SERMONS

Under the auspices of a Faculty Committee University Sermons are delivered monthly throughout the year in the College Chapel by prominent clergymen.

During the war period these sermons were discontinued. They are to be resumed in 1919-1920.

UNIVERSITY ORGANIZATIONS

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES

The Dialectic and Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University, and they have shown remarkable power in developing character as well as in training the intellect. They offer facilities for practice in debate, oratory, declamation, and essay writing; and their members become practically familiar with parliamentary law and usage.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members. Meetings are held by each society every Saturday evening during the college year, admission being confined to members. Public contests in debate between the two societies are conducted twice a year, and, in addition to these, there is a system of intercollegiate debates. On Monday evening before Commencement the intersociety banquet is held, after which each society has its annual reunion. On Tuesday evening preceding Commencement day four representatives elected from the two societies have a public competition in debate, and a prize is awarded to the successful competitors.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society. Although membership in the societies is entirely optional, yet it is earnestly recommended by the faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self-control and the power to persuade and control others.

ELISHA MITCHELL SCIENTIFIC SOCIETY

William Chambers Coker, Ph.D., *President.*
James Munsie Bell, Ph.D., *Vice-President.*
James Munsie Bell, Ph.D., *Permanent Secretary.*
Allan Wilson Hobbs, Ph.D., *Recording Secretary and Treasurer.*
William Chambers Coker, Ph.D.,
James Munsie Bell, Ph.D.,
Collier Cobb, D.Sc., } *Editors of the Journal of the Elisha Mitchell Society.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the North Carolina Academy of Science, is issued quarterly. The object of the Society is to encourage scientific research and to record such matters as pertain to the natural history of the State. The membership is at present restricted to the faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are ordinarily held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the classroom by hearing, reading, and discussing papers on scientific subjects.

The *Journal* is in a measure a bulletin of the scientific laboratories of the University, and contains many articles written by research students. It is now in its twenty-seventh year. The volumes already issued contain twenty-five hundred pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals, over ten thousand books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

Joseph Gregoire deRoulhac Hamilton, Ph.D., *Permanent Secretary.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became President of the University, the Society was moved from Raleigh to Chapel Hill. Under his leadership it became the center of historical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL.D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other objects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation. To this end meetings are held monthly in the History lecture room, at which papers, based on original research, are read and discussed. All members of the University are eligible for membership.

THE PHILOLOGICAL CLUB

Kent James Brown, Ph.D., *President.*
Clinton Walker Keyes, Ph.D., *Secretary.*

The Philological Club meets on the third Tuesday evening of each month during the college year. Its membership consists of the instructors and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in philology and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed. The Club publishes a journal of four issues a year whose contents are contributed by the members. All persons interested in the work of the Club are invited to attend its meetings.

DER DEUTSCHE VEREIN

The Verein was established for the purpose of stimulating interest among the officers and students of the University in German life. Weekly meetings are held throughout the year, at which the German language only is employed. Subjects of general interest pertaining to German literature, history, social life, and politics are informally discussed. An effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language. It is part of the purpose of the Verein to arrange from time to time for public lectures in German. All officers and students of the University interested in the study of German are eligible to membership.

LE CERCLE FRANCAIS

William Morton Dey, Ph.D., *President.*
Oliver Towles, Ph.D., *Permanent Secretary.*

Le Cercle Francais holds weekly meetings at which topics of general interest pertaining to French literature and French life, manners and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

MUSICAL ASSOCIATION

Paul John Weaver, *Director.*
Edwin Samuel Lindsay, *Assistant Director.*
Sam Blount, *President.*
Marcus Cicero Stephens Noble, Jr., *Vice-President.*
James Howell, *Business Manager.*

The aim of the association is to foster the love of music and to afford opportunity of instruction to those interested in music. The organization consists of an orchestra, a brass band, a mandolin and a glee club, which are representative of the musical talent of the University.

THE NORTH CAROLINA CLUB

J. V. Baggett, *President.*
Ernestine Noa, *Secretary and Treasurer.*
E. C. Branson, *Chairman Steering Committee.*
Lenoir Chambers, *Chairman Publicity Committee.*
G. D. Crawford, *Chairman Membership Committee.*

The North Carolina Club was organized September 25, 1914, in Gerrard Hall. Its purpose is to review, interpret and discuss the economic and social problems of the State. These problems are being explored, county by county, by the County Clubs of the University student body. The scope and details of this volunteer work are set forth in The University Extension Bulletin, No. 9, under the title, Home-County Club Studies. Every other Wednesday night throughout the college year the results of the county club studies comes before the North Carolina Club for discussion and debate. The Carolina Club fills a column in the *University News Letter* every week. The final aim of the county clubs is a brief bulletin upon the economic and social problems of every county in the State.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
University of North Carolina Branch

William Neal, *President.*
Marshall Edgar Lake, *Secretary.*
Thera Earl Hinson, *Treasurer.*

The aim of the Branch is to stimulate interest in modern problems in the various fields of electrical engineering, to provide a means for students to discuss in public various questions of a tech-

nical nature and to give them an opportunity for practice in thinking on their feet. The Branch meets semi-monthly. The papers consist of original discussions and abstracts of papers presented before the regular Institute meetings. Membership in the Branch is open to all students who are interested in electrical engineering, and all enrolled members receive the regular monthly Proceedings of the Institute.

THE CAROLINA PLAYMAKERS

This is an organization of students in the University who are interested in the writing, producing, and staging of plays dealing with North Carolina life and history, past and present. It gives a fine opportunity for the expression of interest and the development of talent in any or all of the various activities which follow a play from its conception to its presentation. Every student interested is entitled to membership.

YOUNG MEN'S CHRISTIAN ASSOCIATION

G. D. CRAWFORD, *President.* W. H. ANDREWS, JR., *Vice-President.* S. H. WILLIS, *Secretary.* R. B. GWYNN, *Treasurer.* W. R. WUNSCH, *General Secretary.*	Executive Council.

DIRECTORS: THE EXECUTIVE COUNCIL and

H. W. CHASE	F. P. GRAHAM
L. A. WILLIAMS	T. RONDTHALER
D. D. CARROLL	C. T. WOOLLEN
W. D. MOSS	DONNELL VAN NOPPEN
A. M. COATES	A. J. CUMMINGS

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right and wholesome Christian living. In this spirit it endeavors to extend a helpful and active influence to every sphere of campus activity, athletic, academic, social, and so on.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine; and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service. Through its support of rural Sunday-Schools, its Bible

and Mission studies, its religious meetings, and its personal associations it affords every man a medium of expression in service to the Christian cause.

For an additional number it offers opportunity for community and social service. Through its work for new students, the yearly handbook and directory, bureau of employment, exchange of lost and found articles, lyceum courses, socials, receptions, and similar activities, many students are enabled to give to the community that measure of useful service which would otherwise remain wholly unexpressed.

This year in addition to a general enlarging of the scope of the Association's work, there have been added two elements of invaluable worth as advisory and steadying influences: a Woman's Auxiliary and an Advisory Board. Through the former the women of the University and community are given opportunity of helping shape the growth and tendencies of the Association; through the latter the same opportunity is afforded the men of the faculty, churches, and town in general.

The Departments

The work of the Association is organized as follows:

I. Religious Department.—H. G. West, *Chairman.* Weekly Meetings, H. G. West; Music, H. G. West; Advertising, J. L. Cobb; Chapel, W. R. Wunsch.

II. Bible Study Department.—W. H. Andrews, *Chairman,* Bible Study, W. H. Andrews, Jr.; Mission Study, W. R. Berryhill.

III. Community Department.—S. H. Willis, *Chairman.* Publications, L. G. Blythe and B. B. Liipfert; Information, H. E. Fulton; Self-Help, C. J. Williams; Lost and Found Bureau, Bardin; Chapel Notices, L. S. Smith; Second-Hand Books, J. W. Foster; Building and Records, W. W. Stout; Infirmary, E. E. Rives; Secretary's Office, W. R. Rourk; Ball-Bearings, W. F. Falls; Publicity, J. L. Cobb.

IV. Boy's Department.—E. C. Hunt, *Chairman.* Boy Scouts, E. C. Hunt; K.O.K.A., L. V. Milton.

V. Extension Department.—D. L. Grant, *Chairman.* Freshman Letters, Sophomore Class, with J. A. McLean, Chairman; "Fellows," Nat Mobley; Tar Heel, W. E. Matthews; Other Colleges, D. L. Grant; College Night, A. M. Coats.

VI. FINANCIAL DEPARTMENT.—R. B. Gwynn, *Chairman.* Publications, J. D. Shaw, E. H. Abernathy, and J. W. Daniels; Campaign, J. P. Washburne.

VII. RURAL DEPARTMENT.—C. H. Smith, *Chairman.* Rural Drama and Picnics, C. H. Smith; Sunday School Superintendents, M. M. Jernigan.

VIII. NEGRO DEPARTMENT. — Charles Phillips, *Chairman.* Night School, Charles Phillips; Sunday School, H. B. Simpson; Janitors, W. R. Wunsch.

IX. INDUSTRIAL DEPARTMENT.—Roy Kellum, *Chairman.*

X. SOCIAL DEPARTMENT.—R. H. Griffith, *Chairman,* and Boyd Harden, *Assistant.* Freshman Reception, The Committee; Entertainments, The Committee.

XI. ATHLETIC DEPARTMENT.—A. J. Cummings, *Chairman,* and I. W. Durham, *Assistant.*

XII. LYCEUM DEPARTMENT.—Ben Cone, *Chairman.* Lyceum Courses, Donnell Van Noppen and G. V. Denny; Friday Morning Chapel, Ben Cone; Carolina Smoker, W. R. Wunsch.

PART THREE

THE COLLEGE OF LIBERAL ARTS

THE SCHOOL OF APPLIED SCIENCE

THE SCHOOL OF EDUCATION

THE SCHOOL OF COMMERCE

THE GRADUATE SCHOOL

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF PHARMACY

THE SUMMER SCHOOL FOR TEACHERS

THE BUREAU OF EXTENSION

COLLEGE OF LIBERAL ARTS

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
George Howe, Ph.D., *Dean.*

Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literatures.*
William Cain, A.M., LL.D., *Kenan Professor of Mathematics.*
Henry Horace Williams, A.M., B.D., *Professor of Philosophy.*
Henry Van Peters Wilson, Ph.D., *Kenan Professor of Zoology.*
Collier Cobb, A.M., D.Sc., *Professor of Geology and Mineralogy.*
Marcus Cicero Stephens Noble, *Professor of Pedagogy.*
George Howe, Ph.D., *Professor of the Latin Language and Literature.*
Joseph Hyde Pratt, Ph.D., *Professor of Economic Geology.*
Charles Lee Raper, Ph.D., LL.D., *Professor of Economics.*
William Chambers Coker, Ph.D., *Professor of Botany.*
Archibald Henderson, Ph.D., D.C.L., *Professor of Pure Mathematics.*
Joseph Gregoire de Roulhac Hamiltion, Ph.D., *Alumni Professor of History.*
Andrew Henry Patterson, A.M., *Professor of Physics.*
Henry McGilbert Wagstaff, Ph.D., *Professor of History.*
William Morton Dey, Ph.D., *Professor of the Romance Languages and Literatures.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
Louis Round Wilson, Ph.D., *Professor of Library Administration.*
Parker Hayward Daggett, S.B., *Professor of Electrical Engineering.*
James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
Edwin Greenlaw, Ph.D., *Kenan Professor of English.*
Lester Alonzo Williams, A.M., Pd.D., *Professor of School of Administration.*
Thomas James Wilson, Jr., Ph.D., *Registrar.*
Eugene Cunningham Branson, A.M., Litt.D., *Kenan Professor of Rural Economics and Sociology.*

Dudley deWitt Carroll, M.A., *Professor of Economics.*
Frederick Henry Koch, A.M., *Professor of Dramatic Literature.*
John Harris Mustard, B.S. in E.E., *Professor of Electrical Engineering.*
John Emery Lear, E.E., *Professor of Engineering Sciences.*
Major Frederick William Boye, *Professor of Military Science and Tactics.*
Norman Foerster, A.M., *Professor of English.*
James Holly Hanford, Ph.D., *Professor of English.*
Edgar Wallace Knight, Ph.D., *Professor of Rural Education.*
Paul John Weaver, B.A., *Professor of Music.*
William Frederick Prouty, Ph.D., *Professor of Stratigraphic Geology.*
William Stanley Bernard, A.M., *Associate Professor of Greek.*
*George McFarland McKie, A.M., *Associate Professor of Public Speaking.*
John Manning Booker, Ph.D., *Associate Professor of English.*
Oliver Towles, Ph.D., *Associate Professor of Romance Languages.*
Thomas Felix Hickerson, A.M., S.B., *Associate Professor of Civil Engineering.*
Kent James Brown, Ph.D., *Associate Professor of German.*
William Whatley Pierson, Jr., Ph.D., *Associate Professor of History.*
*Sturgis Elleno Leavitt, Ph.D., *Associate Professor of Romance Languages.*
James Talmage Dobbins, Ph.D., *Associate Professor of Chemistry*
Thorndike Saville, C.E., *Associate Professor of Hydraulic and Sanitary Engineering.*
John Frederick Dashiell, Ph.D., *Associate Professor of Psychology.*
George Kenneth Grant Henry, Ph.D., *Assistant Professor of Latin.*
Henry McCune Dargan, Ph.D., *Assistant Professor of English.*
*John Wayne Lasley, A.M., *Assistant Professor of Mathematics.*
Gustave Adolphus Harrer, Ph.D., *Assistant Professor of Latin.*
*William Walter Rankin, Jr., A.M., *Assistant Professor of Latin.*
Herman Henry Staab, M.A., *Assistant Professor of Romance Languages.*
Frank Porter Graham, M.A., *Assistant Professor of History.*

*Absent on leave.

Samuel Huntington Hobbs, Jr., A.M., *Assistant Professor of Rural Economics and Sociology.*
Allan Wilson Hobbs, Ph.D., *Assistant Professor of Mathematics.*
Clarence Addison Hibbard, M.A., *Assistant Professor of English.*
Lenoir Chambers, A.B., *Assistant Professor of Journalism.*
Charles Melville Baker, B.L.S., *Assistant Professor of Library Administration.*
Arthur Simeon Winsor, A.M., *Assistant Professor of Mathematics.*
Henry Roland Totten, A.M., *Instructor in Botany.*
Clinton Walker Keyes, Ph.D., *Instructor in Classics.*
Harry Morrison Sharp, A.B., *Instructor in Physics.*
Ira Welborn Smithey, B.S., *Instructor in Chemistry.*
Charles Mortimer Hazelhurst, *Instructor in Mathematics.*
James Strong Moffatt, Jr., Ph.D., *Instructor in English.*
Isaac Vilas Giles, B.S., *Instructor in Chemistry.*
Jefferson Carney Bynum, S.B., *Instructor in Mineralogy.*
Joe Burton Linker, A.B., *Instructor in Mathematics.*
Chesley Mastin Hutchins, A.M., *Instructor in French.*
John Theodore Krumpelmann, A.M., *Instructor in German.*
Charles Isadore Silin, *Instructor in French.*
Herman Schoeler, A.B., *Instructor in English.*
William Fred Hunter, A.B., *Instructor in Mathematics.*
William Enoch Price, A.B., *Instructor in Mathematics.*
James Blaine Davis, A.B., *Instructor in Mathematics.*

REQUIREMENTS FOR ADMISSION

See pages 50-58.

EXPENSES

See pages 61-63.

COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS

The course leading to the degree of Bachelor of Arts, is designed to provide a general, well-rounded, liberal education.

In order to be recommended for the degree a student must pass satisfactory examinations in thirty-six whole courses. He must, in addition, pass the required general courses in the Freshman and Sophomore years.

A whole course consists of five (six in the case of certain laboratory courses) class periods a week for one quarter. A half course consists of three class periods a week for one quarter. Two

half courses are equivalent to one whole course. Each class period pre-supposes two hours of preparation or the equivalent in laboratory work.

In the first two years the student pursues a more or less definite curriculum in the following subjects:

English	three courses
Foreign Languages	three courses in each of 2 languages
History	two courses
Mathematics	two courses
Science	two courses

Beginning with the Junior year the work is on an elective basis, providing what is deemed a proper amount of concentration in study and, at the same time, a certain distribution of subjects.

Students who expect at some time to carry out investigation in any science or scientific profession, such as medicine or engineering, are earnestly recommended to enter upon their Senior year with a reading knowledge of German and French. Class work in these subjects should have included at least four courses in German and two in French.

Freshman Year

English 1
Mathematics 1-2
History 1-2
General Course 1-2-3

Select two: Greek 3-4; Latin 1-2; French 3-4; German 3-4; Spanish 3-4

By postponement of any one of these double courses until Sophomore year, a double course in Science (Botany 1, 2; Chemistry 1-2; Zoology 1, 2) may be taken in Freshman year.

Not more than three courses in addition to the general course may be taken in any one term except by special permission of the Committee on Courses.

Sophomore Year

English 3-4

Select one: Botany 1, 2; Chemistry 1-2; Physics 1, 2; Zoology 1, 2

General Course 4-5-6

Select two: Greek 5; Latin 3; French 5; German 21*; Spanish 5

Elective, 3 Courses

*German 23 or 25 may be substituted.

If a course in Science be taken in Freshman year, the Freshman course then postponed must be taken in place of the course in Science required of Sophomores.

Not more than three courses in addition to the general course may be taken in any one quarter except by special permission of the Committee on Courses.

Sophomore Electives: Botany 1, 2; Chemistry 1-2; Economics 1-2; English 13, 14, 37, 38, 51, 55, 59, 61, 65-66; Geology 1-2; German 3-4, 21-22, 23, 25-26; Greek 5, 6, 11; History 3-4, 9-10; Government 1-2; Latin 5, 6, 10, 17, 18; Mathematics 3, 4, 9; Physics 1, 2; Psychology 1, 10-11-12; French, 3-4, 5, 6; Spanish 3-4; Zoology 1.

SYSTEM OF ELECTIVES

For the purpose of providing for the required concentration and distribution of electives in the Junior and Senior year, the various departments of the College are grouped under three general divisions, as follows:

Division I. *Language and Literature.*

Department of English.
Department of German.
Department of Greek.
Department of Latin.
Department of Romance Languages.

Division II. *Philosophy, Political and Social Sciences.*

Department of Economics.
Department of Rural Economics and Sociology.
Department of Education.
Department of History.
Department of Philosophy.
Department of Psychology.

Division III. *Mathematics, Natural Sciences.*

Department of Botany.
Department of Chemistry.
Department of Civil Engineering.
Department of Electrical Engineering.
Department of Geology.
Department of Mathematics.
Department of Physics.
Department of Zoology.

Junior Year

Not later than May 15 of the Sophomore year each student shall hand in to the Registrar a list of electives for Junior year, specifying the department chosen for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar.

A Junior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, and in no case will he be permitted to pursue more than four studies at one time.

One department must be selected for concentrated study from one of the three general divisions. Not less than three courses nor more than five courses may be elected in this department. The courses and the number of hours are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether the five courses shall be prescribed in his own department, or any part of them in allied departments. The Sophomore elective, completed the previous year, may be counted by the head of the department as one of the courses necessary for the minimum of three courses; but in that case an additional elective (chosen from any department) must be taken to complete the general requirement of nine courses.

The remaining courses (four to six) are free electives, subject only to the restriction that at least one course must be chosen from a department in each of the other general divisions. One of these two courses should be selected with a view to a continuance of the same subject in Senior year (see Senior requirements).

The remaining hours, if any, shall be free electives in any subject open to Juniors.

Senior Year

Not later than May 15 of the Junior year each student shall hand in to the Registrar a list of electives for Senior year, specifying the department for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar.

A Senior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, and in no case will he be permitted to pursue more than four studies at one time.

A Senior shall continue in the department of concentrated study begun in Junior year. Not less than three courses nor more than five courses may be elected in this department. The courses and the number of hours are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether the five courses shall be prescribed in his own department, or any part of them in allied departments.

The remaining courses (four to six) are free electives, except that at least two courses must be chosen from one of the other general divisions and in a department in which a course was elected in Junior year.

DEGREES WITH DISTINCTION

Honor of two grades, *Honors* and *Highest Honors,* will be awarded at Commencement to those candidates for the degree of Bachelor of Arts who have done distinguished work in a group of related subjects. Every candidate for Honors must register before October 15 of his Junior year with the Committee on Degrees with Distinction. He shall file a statement, properly approved, of the courses which he proposes to elect, and these electives shall be such as to show a unified plan and to provide for a field of concentrated study involving, as a rule, two departments within the division in which his major work lies. In connection with the regular courses, candidates are expected to do, in term-time and in vacations, a considerable amount of additional reading, or such other supplementary work as may be prescribed by the department. In every case such additional work must be closely related to the general plan of study adopted by the candidate. Students will have the guidance and assistance of special instructors, and small groups will be formed for the discussion of the reading and of the courses. This tutorial assistance will be entirely independent of the conduct of the courses, the object being to stimulate interest in reading not required as a part of the regular class-work for its culture value rather than for direct preparation for examinations.

Besides the careful organization of the plan of study and the conferences, a thesis and a final oral examination are required. The thesis need not necessarily be a contribution to knowledge, but is designed to show the ability of the student to use his knowledge with intelligence and to interpret facts and his personal reaction upon the material studied in the courses or derived from the supplementary reading. The examination will test the candidate's knowledge of the whole field of concentrated study, and will also test his proficiency in a special topic within the general field. The aim of the entire plan of study is thus to secure, as far as possible, a conception of a field of learning as a unity; to prevent, through the various measures named above, undue emphasis on the separate courses as independent units; and to lay the foundation for right method through concentrated study in some part of the field.

The administration of the Honors courses is vested in a Committee on Degrees with Distinction which consists of three representatives from each of the three divisional groups into which the Faculty of the College of Liberal Arts is divided. At present Honors are offered in the Division of Language and Literature on the following terms:

Requirements for Honors in Language and Literature

1. A reading knowledge of one language besides English.

2. Six courses chosen from those open to Juniors, Seniors, and Graduates. Of these, four are to be in one department of Language and literature, the other two may be (*a*) in another literature, or (*b*) in history, provided the courses are closely correlated with work in the major subject. But other combinations may be made, provided they show a definite plan.

3. In every case the major and minor groups constituting the six courses must show a definite relationship: *e. g.,* the study of a period, such as Romanticism in France, Germany, and England, this study including history as well as literature; or the study of a type, such as tragedy, in at least two literatures; or the study of the influence of some writer, for example, Plato, Vergil, Dante, Shakespeare, Goethe, on some literature other than his own. Other means of securing correlation may also be approved.

4. The principle of correlation is further carried out through (*a*) the provision for lecture courses in comparative literature; (*b*) the fortnightly conferences, at which books and reading in connection with the entire scheme of study are discussed; (*c*) the provision for an extensive course of reading, to be done in residence

or during vacations, such reading to be ordinarily independent of prescriptions for courses and designed to give a thorough grounding in the field of learning elected for the major subject; (*d*) the special seminars, at least one each year, through which provision is made for the intensive study of some subject during a limited period under the guidance of a scholar from the faculty of some other university.

5. Acquaintance with the following subjects is to be gained within or outside courses regularly elected: (*a*) the history of the literature chosen for the major subject, including the principal masterpieces illustrating its development; (*b*) some acquaintance with the political and social history of the nation whose literature is so elected; (*c*) some acquaintance with the history and philology of the language. The extent of the candidate's knowledge of these topics, as well as of the field or topic chosen for intensive study, will be tested by an examination to be held near the end of the Senior year.

6. An essay of some length is to be written upon some topic belonging to the field chosen for intensive study. This essay must show (*a*) investigation and mastery of facts; (*b*) power of interpretation; (*c*) excellence in composition and style.

7. In estimating the value of the candidate's work due regard will be paid to the grades attained by him in his regular college courses, but the mater of grades is distinctly subsidiary to other considerations, such as the extent and quality of his reading, the maturity of his thought, and his ability to use his knowledge effectively.

SCHOOL OF APPLIED SCIENCE

FACULTY

HARRY WOODBURN CHASE, Ph.D., *President.*
ANDREW HENRY PATTERSON, A.M., *Dean.*

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*
WILLIAM CAIN, A.M., LL.D., *Kenan Professor of Mathematics.*
HENRY VAN PETERS WILSON, Ph.D., *Kenan Professor of Zoology.*
COLLIER COBB, A.M., D.Sc., *Professor of Geology and Mineralogy.*
JOSEPH HYDE PRATT, Ph.D., *Professor of Economic Geology.*
WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany.*
ARCHIBALD HENDERSON, Ph.D., D.C.L., *Professor of Pure Mathematics.*
ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*
WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*
ALVIN SAWYER WHEELER, Ph.D., *Professor of Organic Chemistry.*
PARKER HAYWARD DAGGETT, S.B., *Professor of Electrical Engineering.*
JAMES MUNSIE BELL, Ph.D., *Smith Professor of Chemistry.*
DUDLEY DEWITT CARROLL, M.A., *Professor of Economics.*
JOHN HARRIS MUSTARD, B.S. in E.E., *Professor of Electrical Engineering.*
JOHN EMERY LEAR, E.E., *Professor of Engineering Sciences.*
WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
THOMAS FELIX HICKERSON, A.M., S.B., *Associate Professor of Civil Engineering.*
STURGIS ELLENO LEAVITT, Ph.D., *Associate Professor of Romance Languages.*
JAMES TALMAGE DOBBINS, Ph.D., *Associate Professor of Chemistry.*
THORNDIKE SAVILLE, C.E., *Associate Professor of Hydraulic and Sanitary Engineering.*
ALLAN WILSON HOBBS, Ph.D., *Assistant Professor of Mathematics.*
ARTHUR SIMEON WINSOR, A.M., *Instructor in Mathematics.*
NORMAN MORTON PAULL, S.B., *Assistant Professor of Drawing.*
JEFFERSON CARNEY BYNUM, S.B., *Instructor in Mineralogy.*

REQUIREMENTS FOR ADMISSION

See pages 50-58.

EXPENSES

See pages 61-63.

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science, the student must have passed satisfactory examinations in all the studies required in one of the following courses outlined in this department, I, II, III, IV, and V. Each course combines instruction in certain sciences and their application to the arts, with certain other general studies deemed essential to a liberal education. These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical professions to which they lead. The courses leading to the degree are five in number.

I. Bachelor of Science in Chemistry.
II. Bachelor of Science in Electrical Engineering.
III. Bachelor of Science in Civil and Highway Engineering.
IV. Bachelor of Science in Medicine.
V. Bachelor of Science in Geology.

I. BACHELOR OF SCIENCE IN CHEMISTRY

Fall Quarter:

FRESHMAN YEAR

Chemistry 1, General Descriptive Chemistry.
Mathematics 2, Plane Trigonometry.
German 1, or French 1, Elementary Course.
Drawing 1, Mechanical Drawing. (Half Course.)

Winter Quarter:

Chemistry 2, General Descriptive Chemistry.
Mathematics 1, Algebra.
German 2, or French 2, Elementary Course.
Drawing 2, Mechanical Drawing. (Half Course.)

Spring Quarter:

Chemistry 31, Qualitative Analysis.
Mathematics 3, Analytical Geometry.
English 1, Composition.

SOPHOMORE YEAR

Fall Quarter:

Chemistry 41. Quantitative Analysis.
Mathematics 4, Calculus.
German 3, Composition and Literature.
English 11, Technical Composition.

Winter Quarter:

Chemistry 42, Quantitative Analysis.
English 12, English and American Literature.
Physics 1, Mechanics, Sound and Heat.
German 4, Composition and Literature.

Spring Quarter:

Chemistry 61, Organic Chemistry.
Chemistry 8, Chemical Equations.
Chemistry 47, Technical Analysis.
Physics 2, Light, Electricity and Magnetism.

JUNIOR YEAR

Fall Quarter:

Chemistry 62, Organic Chemistry.
Chemistry 45, Quantitative Analysis.
E. E. 1, Essentials of Electrical Engineering.
Economics 1, General Course.

Winter Quarter:

Chemistry 81, Physical Chemistry.
Chemistry 46, Quantitative Analysis.
E. E. 2, Essentials of Electrical Engineering.
Economics 2, General Course.

Spring Quarter:

Chemistry 82, Physical Chemistry.
Chemistry 63, Organic Chemistry.
E. E. 3, Essentials of Electrical Engineering.
Economics, Elective.

SENIOR YEAR

Fall Quarter:

Chemistry 21, Research in Chemistry.
Chemistry 83, Physical Chemistry.
Chemistry 11, Industrial Chemistry.
Geology 3, Mineralogy.

Winter Quarter:

Chemistry 22, Research in Chemistry.
Chemistry 64, Organic Chemistry.
Chemistry 12, Industrial Chemistry.
Geology 4, Mineralogy.

Spring Quarter:

Chemistry 23, Research in Chemistry.
Chemistry 84, Physical Chemistry.
Chemistry 13, Chemistry of Foods.
Chemistry 18, History of Chemistry.

II. BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

Fall Quarter:

E. E. 10, Elements of Electrical Engineering. (Half Course.)
Mathematics 2, Plane Trigonometry.
Chemistry 1, General Descriptive Chemistry.
Drawing 1, Mechanical Drawing. (Half Course.)

Winter Quarter:

E. E. 11, Elements of Electrical Engineering. (Half Course.)
Mathematics 1, Algebra.
Chemistry 2, General Descriptive Chemistry.
Drawing 2, Mechanical Drawing. (Half Course.)

Spring Quarter:

E. E. 12, Elements of Electrical Engineering. (Half Course.)
Mathematics 3, Analytical Geometry.
English 1, Composition.
Drawing 5, Machine Drawing. (Half Course.)

SOPHOMORE YEAR

Fall Quarter:

E. E. 20, Principles of Electrical Engineering. (Half Course.)
Mathematics 4, Calculus.
English 11, Technical Composition.
Drawing 6, Machine Drawing. (Half Course.)

Winter Quarter:

E. E. 21, Principles of Electrical Engineering. (Half Course.)
E. E. 24, Engineering Problems. (Half Course.)
Physics 1, Mechanics, Sound and Heat.
English 12, English and American Literature.

Spring Quarter:

E. E. 22, Principles of Electrical Engineering. (Half Course.)
E. E. 25, Engineering Problems. (Half Course.)
Physics 2, Light, Electricity and Magnetism.
C. E. 1, Surveying.

JUNIOR YEAR

Fall Quarter:

E. E. 30, Direct and Alternating Current Circuits and Machines.
E. E. 33, Electrical Measurements. (Half Course.)
C. E. 19, Hydraulics.
Economics 1, General Course.

Winter Quarter:

E. E. 31, Direct and Alternating Current Circuits and Machines.
E. E. 34,Electrical Measurements. (Half Course.)
C. E. 16, Materials of Construction.
Economics 2, General Course.

Spring Quarter:

E. E. 32, Direct and Alternating Current Circuits and Machines.
E. E. 35, Electrical Measurements. (Half Course.)
C. E. 17, Mechanics of Materials.
Economics, Elective.

SENIOR YEAR

Fall Quarter:

E. E. 40, Special Studies in Electrical Machinery.
E. E. 43, General Electrical Engineering. (Half Course.)
M. E. 1, Heat Engines.
Non-Technical Elective.

Winter Quarter:

E. E. 41, Special Studies in Electrical Engineering.
E. E. 44, General Electrical Engineering. (Half Course.)
M. E. 2, Engineering Thermodynamics.
Non-Technical Elective.

Spring Quarter:

E. E. 42, Special Studies in Electrical Engineering.
E. E. 45, General Electrical Engineering. (Half Course.)
M. E. 3, Steam and Hydro-Electric Power Plants.
Non-Technical Elective.

III. BACHELOR OF SCIENCE IN CIVIL AND HIGHWAY ENGINEERING

FRESHMAN YEAR

Fall Quarter:

English 1, Composition.
Mathematics 1, Algebra.
Chemistry 1, General Descriptive Chemistry.

Winter Quarter:

Mathematics 2, Plane Trigonometry.
Drawing 1, Freehand and Mechanical. (Half Course.)
French 3, German 3, Spanish 3 (select one).
Chemistry 2, General Descriptive Chemistry.

Spring Quarter:

Drawing 2, Mechanical. (Half Course.)
French 4, German 4, Spanish 4 (select one as above).
Geology 1, General Course.
Mathematics 3, Analytical Geometry.

SOPHOMORE YEAR

Fall Quarter:

C. E. 1, Surveying and Platting.
Mathematics 4, Calculus.
Physics 1, Mechanics, Sound and Heat.

Winter Quarter:

C. E. 3, Mechanics and Mechanism.
Mathematics 11, Calculus.
Geology 2, General Course.
Drawing 3, Topographical. (Half Course.)

Spring Quarter:

C. E. 5, Plane Table and Topographical Surveying. (Half Course.)
Mathematics 12, Analytic Mechanics.
Drawing 4, Topographical. (Half Course.)
Physics 2, Light, Electricity and Magnetism.

JUNIOR YEAR

Fall Quarter:

C. E. 9, Road and Railroad Surveying.
C. E. 11, Highway Engineering.
English 11, Technical Composition.
Mathematics 5, Descriptive Geometry.

Winter Quarter:

C. E. 16, Materials of Construction.
Mathematics 6, Descriptive Geometry. (Half Course.)
Economics 1, General Course.
English 12, English and American Literature.

Spring Quarter:

C. E. 10, Railroad Enginering.
C. E. 12, Highway Engineering.
C. E. 17, Mechanics of Materials.
Business Law.

SENIOR YEAR

Fall Quarter:

C. E. 18, Engineering Geology. (Half Course.)
C. E. 19, Hydraulics.
C. E. 23, Structures.
E. E. 1, Essentials of Electrical Engineering.

Winter Quarter:

C. E. 20, Water Power Development.
C. E. 24, Structures.
C. E. 26, Bridge Design.
E. E. 2, Essentials of Electrical Engineering.

Spring Quarter:

C. E. 21, Sanitary Engineering.
C. E. 25, Reinforced Concrete Structures.
C. E. 27, Bridge Design.
E. E. 3, Essentials of Electrical Engineering.

IV. BACHELOR OF SCIENCE IN MEDICINE

FRESHMAN YEAR

Fall Quarter:

Chemistry 1.
Mathematics 1.
French 1 or 3.

Winter Quarter:

Chemistry 2.
Mathematics, 2.
French 2 or 4.

Spring Quarter:

Chemistry 31.
English 1.
Botany 1.

SOPHOMORE YEAR

Fall Quarter:

Physics 1.
English 3.
French 3 or German 1.

Winter Quarter:

Physics 2.
English 4.
Zoology 1.
French 4 or German 2.

Spring Quarter:

Chemistry 61.
Psychology 1.
Elective, 1 Course.

JUNIOR YEAR

Fall Quarter:

Chemistry 62.
German 3.
Elective, 1 Course.

Winter Quarter:

Chemistry 44.
German 4.
Elective, 1 Course.

Spring Quarter:

Zoology 2.
Elective, 2 Courses.

V. BACHELOR OF SCIENCE IN GEOLOGY

FRESHMAN YEAR

Fall Quarter:

Geology 1, Introduction to Geology.
Mathematics 1, Algebra.
Chemistry 1, General Course.
Drawing 1, Freehand and Mechanical.

Winter Quarter:

Geology 2, Historical Geology.
Mathematics 2, Plane Trigonometry.
Chemistry 2, General Course.
Drawing 2, Freehand and Mechanical.

Spring Quarter:

English 1, Composition.
Mathematics 3, Analytical Geometry.
Chemistry 31, Qualitative Analysis.
German 3, or French 3, or Spanish 3.

SOPHOMORE YEAR

Fall Quarter:

Geology 3, Mineralogy.
C. E. 1, Surveying and Platting.
Chemistry 41, Quantitative Analysis.
German 4, or French 4, or Spanish 4.

Winter Quarter:

Geology 4, Mineralogy.
Physics 1, General Course.
Chemistry 42, Quantitative Analysis.
Drawing 3, Topographical Drawing.

Spring Quarter:

C. E. 5, Plane Table.
Physics 2, General Course.
Geology 7, Principles of Geology.
Geology 13, Petrology.

JUNIOR YEAR

Fall Quarter:

Geology 11, Ore Deposits.
Geology 25, Physiography.
English 11, Technical Composition.
Business Law.

Winter Quarter:

Geology 8, Stratigraphy.
Geology 12, Nonmetallic Minerals.
English 12, English and American Literature.
Economics 1, Principles of Economics.

Spring Quarter:

Geology 23, Soil Geology.
Geology 51, Advanced Field Geology.
Geology 8, Stratigraphy.
Geology 42, Mineral and Ore Deposits.

SENIOR YEAR

Fall Quarter:

Geology 52, Advanced Field Geology.
Geology 25, Engineering Geology.
Geology 54a, Indoor work completing field course.
Chemistry 45, Coal and Gas Analysis.

Winter Quarter:

Geology 21, Industrial Geography.
Chemistry 11, Industrial Chemistry.
Chemistry 46, Mineral and Fertilizer Analysis.
Geology 43, Advanced Mineralogy.

Spring Quarter:

Geology 22, Commercial Geography.
Chemistry 12, Industrial Chemistry.
Geology x, Special investigation bearing on stratigraphy, ore-deposits, coal and oil geology, or soil geology.

PREMEDICAL COURSE

FRESHMAN YEAR

Fall Quarter:

Chemistry 1.
*French 1 or German 1.
History 1.
Mathematics 1.

Winter Quarter:

Chemistry 2.
French 2 or German 2.
History 2.
English 1.

*If the student enters with 2 units of French or German he should select French 3 or German 3.

Spring Quarter:

Chemistry 31.
English 2.
Botany 1.

SOPHOMORE YEAR

Fall Quarter:

Physics 1.
French 3 or German 3.
Chemistry 61.

Winter Quarter:

Physics 2.
Geology 1.
French 4 or German 4.

Spring Quarter:

Select three { Chemistry 44. / Geology 2. / Psychology 1. / Physics 3

SCHOOL OF EDUCATION

FACULTY

HARRY WOODBURN CHASE, Ph.D., *President.*
MARCUS CICERO STEPHENS NOBLE, *Dean.*

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy.*
NATHAN WILSON WALKER, A.B., *Professor of Secondary Education and State Inspector of High Schools.*
LOUIS ROUND WILSON, Ph.D., *Professor of Library Administration.*
LESTER ALONZO WILLIAMS, A.M., Pd.D., *Professor of School Administration.*
EDGAR WALLACE KNIGHT, Ph.D., *Professor of Rural Education.*
JOHN FREDERICK DASHIELL, Ph.D., *Associate Professor of Psychology.*

REQUIREMENTS FOR ADMISSION

See pages 50-58.

EXPENSES

See pages 61-63.

STATE TEACHERS' CERTIFICATE

According to the public school law of North Carolina, all high school teachers and principals, all superintendents of schools, all supervisors must hold state certificates appropriate to their work. The School of Education offers such courses as will aid candidates for such certificates to secure them without further examination.

Full information about these certificates and their requirements may be obtained from the Dean. Prospective teachers, principals, superintendents and supervisors should secure this information before registering for courses in the School of Education.

COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

In order to be recommended for the Degree of Bachelor of Arts in Education, the student must have completed satisfactorily the four years course outlined below.

Freshman Year

English 1
History 1-2
Mathematics 1
Education 1
General Course 1-2-3

Select two:
- Greek 3-4
- Latin 1-2
- German 3-4 or 2-3
- French 3-4
- Spanish 3-4

By postponement of any of those courses except English and Education until Sophomore year one course in Science (Botany 1, 2; Chemistry 1-2 or Zoology 1, 2) may be taken in the Freshman year. Not more than three courses in addition to the General Course may be taken in any one term except by special permission of the Committee on Courses.

Sophomore Year

Select one:
- English 3-4
- Botany 1, 2
- Chemistry 1-2
- Physics 1, 2
- Zoology 1, 2

Select two:
- Greek 5
- Latin 3
- German 21
- French 5
- Spanish 5

Select two:
- Mathematics 2
- Education 3
- Education 4
- Psychology 1
- General Course 4-5-6

If a course in Science be taken in the Freshman year, the Freshman course then postponed must be taken in place of the course in Science required of Sophomores. Not more than three courses in addition to the General Course may be taken in any one term except by special permission of the Committee on Courses.

Junior Year

For Junior year students are required to select three courses open to Juniors in the School of Education and six courses open to Juniors in the College of Liberal Arts according to the regulations governing such selection.

Senior Year

For Senior year students are required to select three courses open to Seniors in the School of Education and six courses open to Seniors in the College of Liberal Arts according to the regulations governing such selection.

REGULATIONS

Candidates for the Degree of Bachelor of Arts in Education must complete satisfactorily 36 full courses plus the general course required of Freshmen and Sophomores in the College of Liberal Arts.

The proportion of these courses to be taken each year in the College of Liberal Arts and the proportion to be taken in the School of Education is as follows:

	College of Liberal Arts	*School of Education*
Freshman year	Eight courses and the general course	One course
Sophomore year	Seven courses and the general course	Two courses
Junior year	Six courses	Three courses
Senior year	Six courses	Three courses

Courses in the School of Education are classified into three groups: one group in the Principles of Education; one group in the Methods of Education; one group in the History of Education. The courses included within each group are given below:

PRINCIPLES	METHODS	HISTORY
Education 1	Education 2	Education 22
Education 4	Education 3	Education 23 (Half-course)
Education 41	Education 5	Education 24 (Half-course)
Education 42	Education 52	Education 25
Education 51	Education 62	Education 27
Education 61	Library Administration 1	(Half-course)
Education 63	(Courses in special methods will be announced later)	

To insure a proper distribution of work and concentration of effort candidates for the degree of Bachelor of Arts in Education are required to select not less than five courses from the group on Principles; not more than four nor less than three from the group on Methods; not less than one nor more than two from the group on the History of Education. The prescribed and elective courses in Freshman and Sophomore years are to be counted in meeting this requirement.

In order to meet the requirement of the State Board of Examiners and Institute Conductors all students intending to teach in the high schools of the State whether candidates for A.B. in Education or not are required to take Education 51, Education 52, and two more full courses in Education. All candidates for A.B. in Education are, therefore, required to select Education 51 and Education 52 as two of the required six courses in Junior and Senior years.

All courses must be approved by the Dean before they are accepted by the Registrar.

SCHOOL OF COMMERCE

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Dudley deWitt Carroll, M.A., *Acting Dean.*

Dudley deWitt Carroll, M.A., *Professor of Economics.*
——— ———, *Professor of Business Administration.*
——— ———, *Professor of Marketing and Salesmanship.*
Roy Burford Cowin, M.A., *Associate Professor of Accounting.*
Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literatures.*
Collier Cobb, A.M., D.Sc., *Professor of Geology and Mineralogy.*
Charles Lee Raper, Ph.D., LL.D., *Professor of Economics.*
Archibald Henderson, Ph.D., D.C.L., *Professor of Pure Mathematics.*
Joseph Gregoire deRoulhac Hamilton, Ph.D., *Alumni Professor of History.*
Henry McGilbert Wagstaff, Ph.D., *Professor of History*
Patrick Henry Winston, *Professor of Law.*
William Morton Dey, Ph.D., *Professor of the Romance Languages and Literatures.*
Lucius Polk McGehee, A.B., *Professor of Law.*
Atwell Campbell McIntosh, A.M., *Professor of Law.*
Eugene Cunningham Branson, A.M., *Kenan Professor of Rural Economics and Sociology.*
Norman Foerster, A.M., *Professor of English.*
James Holly Hanford, Ph.D., *Professor of English.*
William Whatley Pierson, Jr., Ph.D., *Associate Professor of History.*
Sturgis Elleno Leavitt, Ph.D., *Associate Professor of Romance Languages.*
John Frederick Dashiell, Ph.D., *Associate Professor of Psychology.*

GENERAL AIM AND PURPOSE

The School of Commerce is an expression of the University's desire to serve the business life of the State. It was established as a result of the action of the State Legislature in the session of 1919, when the recommendation of the President and Trustees of the University was approved and an appropriation made for the purpose.

The course of study is based on the recognition that business is becoming a profession. The forces and influences operating in this field are so far-reaching and baffling in their complexity that to master them requires both broad and intensive training. Definite preparation to function successfully in the organization and administration of business enterprise is the purpose of the School, which is co-ordinate in standing and equipment with the College of Liberal Arts and the School of Applied Science.

The Course of Study covers four years and is designed to give a foundation of broad and general culture and, at the same time, supply a definite and practical training to those who intend to engage in any of the great lines of industrial and commercial activity. By a certain elasticity in the choice of elective subjects, it will be possible to prepare for the consular service, the teaching of commercial subjects, or public service.

REQUIREMENTS FOR ADMISSION

See pages 50-58.

EXPENSES

See pages 61-63.

COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN COMMERCE

The degree of Bachelor of Science in Commerce will be conferred upon students who satisfy the entrance requirements and complete the four-year course outlined below.

Freshman Year

English 1, Composition.
Mathematics 1, 2, Algebra and Trigonometry.
History 1-2, General History.
Geology 5-6, Industrial and Commercial Geography.
Select One { French 3-4 / German 3-4 / Spanish 3-4

Sophomore Year

Economics 1-2, General Course.
Economics 15, Industrial History. (Half Course.)
English 3-4, English and American Literature.
Government 1-2, Principles and Methods of Modern Governments.

Government 3, Government and Business.

*Select one { French / German / Spanish } Two Courses.

Junior Year

REQUIRED COURSES

Accounting 1-2-3, General Principles of Accounting. (One and a Half Courses.)
Business Organization. (Half Course.)
Economics 3-4, Money and Banking.

Select one { Chemistry 1-2 / Geology 1-2 / Physics 1, 2 / Botany 1, 2 / Zoology 1, 2

ELECTIVES
(Select Three Courses)

Economics 6, Insurance.
Economics 9, Transportation.
Corporation Finance.
Commercial Law. (One and a Half Courses.)
Economics 10, Labor Problems. (Half Course.)
Rural Economics 1-2
French 7, Practical French.
Spanish 5, Practical Spanish.
German 11, Practical German.
English 21-22, Advanced Composition. (Two Half Courses.)
Industrial Management.
English 11, Writing of Technical Papers.
Psychology 1, General Psychology.
Psychology 30, Social Psychology. (Half Course.)
Psychology 35, Commercial Psychology. (Half Course.)

Senior Year

REQUIRED COURSES

Economics 16, Theories of Economic Reform. (Half Course.)
Commercial Law. (If not taken in the Junior Year.)
Psychology 1. (If not taken in the Junior Year.)

*The language selected must be the same as that pursued in the Freshman year.

ELECTIVES
(Select Six Courses)

All courses listed as electives under the Junior Year and the following:

Accounting 4-5, Cost Accounting. (Two Half Courses.)
Accounting 6, Auditing.
Economics 13-14, Public Finance.
Markets and Marketing.
Foreign Trade.
Salesmanship and Sales Management.
Advertising.
International Law.
Credits and Collections.
Investments.
Employment Problems.
History 9-10, Latin-American History and Customs.
Geology 21-22, Advanced Industrial and Commercial Geography.
Philosophy 13-14-15, Ethics.

The selection of elective courses in the Junior and Senior Years must be made in consultation with the Dean of the School of Commerce. The object will be to help each student to arrange a program of study looking toward an understanding of the special line of business in which he is planning to engage. In certain cases, where it would clearly promote a more effective preparation of the student, subjects may be chosen which are not included in the list of electives in the Junior and Senior Years.

No credit in the course is given for stenography, but every student is urged to acquire facility in the use of it before graduation.

SPECIAL STUDENTS

There are many young people already in business who feel the need of additional special training, but who are unable to spend the full four years at the University or who cannot provide proper entrance credits. Recognizing this, the School of Commerce will admit students twenty-one years of age, or over, who cannot fulfill the entrance requirements as special students, but not as candidates for the degree.

LECTURES

A part of the training will consist of attendance upon lectures given by representative business men of the State and the South. These will be supplemented by Government officials, both State

and national, who are dealing with industrial problems. These lectures will acquaint the students with the practical problems of current business, and enable the business men to come in touch with young people in training who may be utilized later in making their organizations more efficient.

APPRENTICESHIPS

During the summer, between the Junior and Senior years, each student will be expected to spend his time working in an establishment in the line of business for which he is preparing. This may begin in the summer following the Sophomore Year, as is the case now with students who go to the National City Bank of New York. The University itself, in its business aspects, will be used as a working laboratory, particularly the offices of the Treasurer and Business Manager. Wherever possible each student, before graduation, will be required to make a careful analysis of a going concern in the field of his practical interest.

STUDENT ORGANIZATION

The students in the School of Commerce maintain an organization for the promotion of their interests and the work of the School. This organization has the form of a regular business corporation, and carries on its work by the methods which they will meet in the regular procedure of the business world. This affords an excellent opportunity to the students for familiarizing themselves with corporation methods.

THE GRADUATE SCHOOL

COMMITTEE

Harry Woodburn Chase, Ph.D., *President.*
Charles Lee Raper, Ph.D., LL.D., *Dean.*
Edwin Greenlaw, Ph.D.
Lester Alonzo Williams, Pd.D.
James Munsie Bell, Ph.D.
William Whatley Pierson, Ph.D.

FACULTY

Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literatures.*
William Cain, A.M., LL.D., *Kenan Professor of Mathematics.*
Henry Horace Williams, A.M., B.D., *Professor of Philosophy.*
Henry Van Peters Wilson, Ph.D., *Kenan Professor of Zoology.*
Collier Cobb, A.M., D.Sc., *Professor of Geology and Mineralogy.*
Marcus Cicero Stephens Noble, *Professor of Pedagogy.*
George Howe, Ph.D., *Professor of the Latin Language and Literature.*
Charles Lee Raper, Ph.D., LL.D., *Professor of Economics.*
Archibald Henderson, Ph.D., D.C.L., *Professor of Pure Mathematics.*
Joseph Gregoire deRoulhac Hamilton, Ph.D., *Alumni Professor of History.*
Andrew Henry Patterson, A.M., *Professor of Physics.*
Henry McGilbert Wagstaff, Ph.D., *Professor of History.*
William Morton Dey, Ph.D., *Professor of the Romance Languages and Literatures.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
Parker Hayward Daggett, S.B., *Professor of Electrical Engineering.*
James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
Edwin Greenlaw, Ph.D., *Kenan Professor of English.*
Lester Alonzo Williams, A.M., *Professor of School Administration.*
Eugene Cunningham Branson, A.M., Litt.D., *Kenan Professor of Rural Economics and Sociology.*
Dudley deWitt Carroll, M.A., *Professor of Economics.*

FREDERICK HENRY KOCH, A.M., *Professor of Dramatic Literature.*
JOHN HARRIS MUSTARD, B.S. in E.E., *Professor of Electrical Engineering.*
JOHN EMERY LEAR, E.E., *Professor of Engineering Sciences.*
NORMAN FOERSTER, A.M., *Professor of English.*
JAMES HOLLY HANFORD, Ph.D., *Professor of English.*
EDGAR WALLACE KNIGHT, Ph.D., *Professor of Rural Education.*
WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
WILLIAM STANLEY BERNARD, A.M., *Associate Professor of Greek.*
JOHN MANNING BOOKER, Ph.D., *Associate Professor of English.*
OLIVER TOWLES, Ph.D., *Associate Professor of Romance Languages.*
KENT JAMES BROWN, Ph.D., *Associate Professor of German.*
WILLIAM WHATLEY PIERSON, JR., Ph.D., *Associate Professor of History.*
JOHN FREDERICK DASHIELL, Ph.D., *Associate Professor of Psychology.*
GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Professor of Latin.*
HENRY MCCUNE DARGAN, Ph.D., *Assistant Professor of English.*
JOHN WAYNE LASLEY, A.M., *Assistant Professor of Mathematics.*
GUSTAVE ADOLPHUS HARRER, Ph.D., *Assistant Professor of Latin.*
HARRY MORRISON SHARP, A.B., *Instructor in Physics.*
JAMES STRONG MOFFATT, JR., Ph.D., *Instructor in English.*
JEFFERSON CARNEY BYNUM, S.B., *Instructor in Mineralogy.*

CANDIDATES FOR GRADUATE WORK*

Graduates of the University of North Carolina, and of other universities and colleges of good standing, are, upon application to the Dean, ordinarily admitted to advanced courses of instruction, free of charge for tuition. There is, however, a registration fee of ten dollars for each quarter. An applicant for admission, unless a graduate of the University of North Carolina, is required to present his diploma and a certificate of scholarship and character.

Students who are not graduates may, if they prove themselves qualified, take graduate courses; but no graduate degree will be conferred upon a student who does not already hold a Bachelor's degree from some institution of approved standing.

The candidate for a graduate degree will not be allowed a second trial on examination; nor will he receive credit upon any course unless he makes a grade of at least 3.

*NOTE: For certain changes in the requirements for graduate work, effective October 1, 1920, see special bulletin of the Graduate School.

DEGREES

The University offers to graduate students advanced work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy.

Master of Arts

Candidates for the degree of Master of Arts must complete nine courses, five of which must be taken from courses open to graduates, the remaining four from courses open to graduates or from undergraduate courses open to Juniors and Seniors. The candidate must select one major subject, to which he shall devote at least half of his time, and one allied minor subject. He may, with the approval of the Dean and of the professor in charge of his major subject, select a second minor subject. He shall be required to have a reading knowledge of French and German in case the professor in charge of his major subject thinks it necessary for efficient work.

A thesis based on the major subject of study and showing capacity for original research must be submitted on or before May 15 of the given year, and must be filed in typewritten form on or before June 1.

Master of Science

The degree of Master of Science is conferred under conditions similar to those stated above for the degree of Master of Arts.

Doctor of Philosophy

A candidate for the degree of Doctor of Philosophy is required to pursue, in residence at the University, a prescribed course of advanced study and research in one major subject and two allied minor subjects. In general a term of three years is required, but the degree may be secured in two years in the case of exceptional preliminary training in the major subject.

These requirements of residence and study are, however, secondary. The degree is conferred not simply for faithful study in a determinate field of work for a prescribed period, but because of a high attainment in a special branch of learning, which the candidate must manifest not only in examination but by a thesis which gives evidence of independent research. The thesis must be accepted before the candidate may be admitted to examination. The examinations are both written and oral. They demand a minute knowledge of a special field of work as well as a general acquaintance with the department of learning in which the candidate offers himself for the degree. The candidate must also give proof of his ability to read French and German.

SCHOOL OF LAW

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Lucius Polk McGehee, A.B., *Dean.*

Lucius Polk McGehee, A.B., *Professor of Law.*
Patrick Henry Winston, *Professor of Law.*
Atwell Campbell McIntosh, A.M., *Professor of Law.*
Oscar Ogburn Efird, A.M., LL.B., *Assistant Professor of Law.*

HISTORICAL SKETCH

The law school, which developed into the Law School of the University, was founded in 1843 at Chapel Hill as a private school by William H. Battle, then a judge of the Superior Court, later a justice of the Supreme Court of the State. In 1845 Judge Battle was made Professor of Law in the University, and it was provided that the degree of Bachelor of Laws should be conferred on those completing the prescribed two-year course. From the records of the University, however, it seems that few degrees were actually conferred. For a long time the school maintained a certain independence of the University. The Professor of Law received no salary, though he enjoyed the fees from his classes, and the students were not entirely subject to the discipline of the University.

This was the position of the school from its formation until 1899, a period which covered the professorship of Judge Battle who retired in 1879, two years when the law classes were conducted by Hon. Kemp P. Battle, then President of the University, and the professorship of Dr. John Manning, elected 1881, died 1899. In 1899 the school was completely incorporated into the University, with the late Judge James C. MacRae, previously a justice of the Supreme Court of North Carolina, as the first Dean of the Law School.

REQUIREMENTS FOR ADMISSION

See page 59.

EXPENSES

See pages 61-63.

REQUIREMENTS FOR GRADUATION

For the Degree of LL. B.

The degree of LL.B. is conferred on students who complete the three years course of study on pages 130-132.

For the Combined Degrees of A. B. and LL. B.

The University offers the combined degrees of A.B. and LL.B. to students who have complied with the following requirements:

1. The courses in the College of Liberal Arts outlined below.
2. All academic work to be completed by the end of the last regular examination period of the Junior year of the candidate.
3. The completion of all courses in the School of Law for the degree of LL.B.

Students taking this combined course will be enabled to get the two degrees in six instead of seven years.

Prescribed courses in the College of Liberal Arts for the combined degree:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Eng. 1	Eng. 3-4	Econ. 1-2
Math. 1-2	Lat. 3-4	Philos. 1
Lat. 1-2	Hist. 3-4	Eng. 2 couses
Select one: Greek 3-4 / French 3-4 / Ger. 3-4 / Hist. 1-2	Select one: Greek 5 / French 5 / Ger. 21	Hist. 2 courses
	Select one: Math. 3-4 / Phys. 1-2 / Chem. 1-2	Elective 2 courses

PREPARATION FOR NORTH CAROLINA BAR

The Supreme Court of the State prescribes a two-year course for admission to the bar, the requirements of which are given below. Students preparing for the State Bar Examination may select from the curriculum of the school the subjects required by the Supreme Court Rules and complete the course in two years. Students who have read law elsewhere for a whole or a part of the prescribed two years may take a part of the course beginning with any half year, and in the Summer School review the whole Supreme Court course.

NUMBER OF HOURS OF WORK REQUIRED AND PERMITTED

Students are advised not to attempt to take more hours of work than are included in the regular curriculum for the degree, nor will they be permitted to do so except with the special permission of the Faculty granted only for good cause.

No student, unless he is also taking other courses in the University, will be permitted to take less than ten hours of work weekly, nor will a student taking less than ten hours weekly be considered as studying law within the rule of the Supreme Court requiring two years of study of law as a necessary preliminary of applicants for license to practice in North Carolina.

COURSES AND METHODS OF INSTRUCTION

Work in the School is divided into two half-years instead of three quarters. The first half-year begins at the same time as the fall quarter of the College of Liberal Arts, the second half-year begins the last Monday in January.

The courses offered and the general order in which it is advisable that they should be presented is indicated in the Program of Studies given below. Variations from the order may be permitted for good cause after the first year. The instruction is mainly by study of cases and quizzes in connection therewith, but some courses are given in lectures or in connection with text books.

The names of the instructors and the books used in the different courses indicate the last courses actually given, and are subject to change.

The regular work for the degree of LL.B. is indicated in the Program of Studies. Fifteen hours weekly for three years constitutes the course required.

PROGRAM OF STUDIES

First Year

CONTRACTS: Three hours, both terms. McIntosh's *Cases on Contracts.* Professor MCINTOSH.

TORTS: Two hours, both terms. Burdick's *Cases on Torts.* Professor WINSTON.

PROPERTY: Three hours, both terms. Brennan's *Cases on Personal Property;* Finch's *Cases on Property in Law, begun.* Professor MCGEHEE.

Civil Procedure at Common Law: Two hours, both terms. Scott's *Cases on Civil Procedure.* Professor Efird.

Criminal Law: Three hours, Fall term. Derby's *Cases in Criminal Law.* Professor Efird.

Agency: Three hours, Spring term. Mechem's *Cases on Agency.* Professor Efird.

Introduction to Law: Two hours, Fall term. Hall's-Fishback's *Elementary Law.* Professor McGehee.

Equity Jurisprudence: Two hours, Spring term. Ames' *Cases on Equity Jurisprudence.* Professor Winston.

Use of Authorities and Brief Making: One hour, Fall term. No Credit. Professor ————————.

Practice Course: One hour, Spring term. No Credit. Professor ————————.

Second Year

Property: Two hours, both terms. Finch's *Cases on Property in Law.* Professor McGehee.

Equity: Two hours, both terms. Ames' *Cases.* Professor Winston.

Procedure in Equity and Under Code of Civil Procedure: Two hours, both terms. Case books to be selected. Professor McIntosh.

Evidence: Two hours, both terms. Thayer's *Cases,* Second Edition. Professor Efird.

Negotiable Instruments: Three hours, Fall term. Colson's-Huffcut's *Cases.* Professor Winston.

Sales: Three hours, Spring term. Erwin's *Cases.* Professor McGehee.

Persons: Two hours, Fall term. Woodruff's *Cases.* Professor McGehee.

Damages: Two hours, Spring term. Text to be selected. Professor ————————.

Legal History: Two hours, Fall term. Jenks' *History English Law Lectures.* Professor ————————.

STATUTES AND LEGISLATION: Two hours, Spring term. Professor ————————.

PRACTICE WORK: Two hours, both terms. No credit. Professor ————————.

Third Year

CONSTITUTIONAL LAW: Two hours, both terms. Hall's *Cases.* Professor MCGEHEE.

PRIVATE CORPORATIONS: Two hours, both terms. Burnett's *Cases.* Professor MCGEHEE.

WILLS AND ADMINISTRATION: Two hours, both terms. Costigan's *Cases.* Professor WINSTON.

CONFLICT OF LAWS: Two hours, both terms. Text to be selected. Professor MCINTOSH.

INSURANCE: Two hours, Fall term. Richard's *Cases.* Professor WINSTON.

*FEDERAL COURTS: Two hours, Fall term. Hughes' *Federal Procedure.* Professor MCINTOSH.

*MUNICIPAL CORPORATIONS: Two hours, Fall term. Macy's *Cases.* Professor MCINTOSH.

CARRIERS AND PUBLIC SERVICE CORPORATIONS: Three hours, Fall term. Goddard's *Cases on Bailments.* Professor EFIRD.

PARTNERSHIP: Two hours, Spring term. Mechem's *Cases.* Professor EFIRD.

*BANKRUPTCY: Two hours, Spring term. Student's *Remington.* Professor MCINTOSH.

*PUBLIC OFFICERS AND EXTRAORDINARY REMEDIES: Two hours, Spring term. Text to be selected. Professor ————————.

INTERNATIONAL LAW: Three hours, Spring term. Evan's *Cases.* Professor MCGEHEE.

STUDENTS LAW CLUBS

The students of the Law School are organized into Law Clubs in which instructive voluntary practice is afforded in the preparation, argument and trial of legal questions, and in the use of

*Omitted in alternate years.

legal authorities. Each member of a club is expected during the year to take part in several such trials in conformity with the programs of the clubs, which are standardized. This work is carried on with the co-operation of the Law Faculty.

ADDITIONAL OPPORTUNITIES OF UNIVERSITY LIFE

Students in the Law School will be admitted without additional expense to the courses given in the Departments of Economics, or Philosophy, and of History in the College of Liberal Arts and to the courses in Public Speaking and English, subject to the rules stated as to the number of hours which a student may take, and subject to the approval of the Dean of the School of Law. A student taking such a course must satisfy the entrance requirements for the course selected.

Students of the School may become members of the Dialectic and Philanthropic Literary Societies, where they may take part in or witness debates of a high order and train themselves in parliamentary law. As students of the University they enjoy all the privileges of the University library, the University gymnasium, and the organizations of the University generally, literary, social, and athletic.

THE LAW LIBRARY

A law library of about six thousand volumes is a part of the equipment of the Law School, and is housed in the Law building. The library stands to the Law School in the same relation that the laboratory stands to the School of Science. Constant use of the library is free to the students under reasonable regulations.

SUMMER LAW SCHOOL

A summer course in law is offered for ten weeks each summer during which is provided a review of the course presented by the Supreme Court of the State for applicants for license.

SESSION

The term for the summer of 1920 begins Monday, June 14, and ends Friday, August 20, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina.

LECTURES AND RECITATIONS

At this session two daily lectures and recitations of one hour and a half each will be held by professors of the Law Faculty and competent instructors. In addition there will be frequent quizzes. The two courses offered are intended to cover the requirements for reading prescribed, given below, in the rules of the Supreme Court of North Carolina. The instruction is conducted by means of text-books, lectures, leading cases, quizzes, and moot court.

An outline of the work and of the time assigned to the various subjects is approximately as follows:

Domestic Relations (6 lectures); Contracts (18 lectures); Torts (12 lectures); Corporations (6 lectures); Evidence (6 lectures); Pleading and the Code (12 lectures); Criminal Law (8 lectures); Personal Property (6 lectures); Real Property (20 lectures); Executors and Administrators (6 lectures); Equity (9 lectures); Constitutional Law (9 lectures); Legal Ethics (2 lectures).

The text-books used will be, as far as possible, those used at the regular session of the school, but any standard text-book on any of these subjects will be accepted.

EXAMINATIONS

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examinations are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses. These certificates will not entitle the recipients to any credit in the work of the regular school.

FEES AND EXPENSES

Tuition for term.....$30.00
Registration and Incidental Fees..... 5.00

The above mentioned fees cover privileges of the University library, gymnasium, and baths. Board in the village, with room, will cost from $25.00 to $37.50 a month; without room, from $20.00 to $30.00.

For further information address the President of the University or the Dean of the School of Law, Chapel Hill, N. C.

RULES OF THE SUPREME COURT OF NORTH CAROLINA AS TO ADMISSION TO THE BAR

1. Applicants for license to practice law will be examined on the last Monday in January and the Monday preceding the last Monday in August of each year, and at no other time. Examination will be in writing.

2. Applicants must have attained the age of twenty-one years and must have studied:

Ewell's Essentials, 3 volumes; Clark's Code of Civil Procedure; Revisal of 1905; Constitution of North Carolina; Constitution of the United States; Creasy's English Constitution; Sharswood's Legal Ethics; Sheppard's Constitutional Text Book; Cooley's Principles of Constitutional Law (or their equivalents). Also some approved text-book on each of the following subjects: Agency, Bailments, Carriers, Corporations, Equity, Executors, Negotiable Instruments, Partnership, and Sales.

Applicants must have read law for two years at least, and shall file with the clerk a certificate of good moral character, signed by two members of the bar who are practicing attorneys of this Court, and also a certificate of the Dean of a Law School or a member of the bar of this Court, that the applicant has read law under his instruction, or to his knowledge or satisfaction, for two years, and upon examination by such instructor has been found competent and proficient in said course. Such certificate, while indispensable, will of course not be conclusive evidence of proficiency. An applicant from another State can file a certificate of good moral character signed by any State officer of the State from which he comes.

If the applicant has obtained license to practice law in another State, in lieu of the certificate of two years reading and proficiency he can file (with leave to withdraw) his law license issued by said State.

3. Each applicant shall deposit with the clerk a sum of money sufficient to pay the license fee before he shall be examined, and if upon examination he shall fail to entitle himself to receive a license, the money will be returned to him. The amount required

is $23.50, twenty dollars of which is the tax prescribed by statute, $1.50 registration fee, and $2 due printers for the parchment upon which certificates of license are issued.

The above requirements apply also to lawyers from other States wishing to locate and engage in the practice here. No *formal application* is required and no application blanks are used. The applicant may comply with above requirements at any time by Friday preceding day of examination, either by mail or in person.

SCHOOL OF MEDICINE

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Isaac Hall Manning, M.D., *Dean.*

Charles Staples Mangum, A.B., M.D., *Professor of Anatomy.*
Isaac Hall Manning, M.D., *Professor of Physiology.*
William deBerniere MacNider, M.D., *Kenan Professor of Pharmacology.*
James Bell Bullitt, A.M., M.D., *Professor of Histology and Pathology.*
Robert Baker Lawson, M.D., *Associate Professor of Anatomy.*
Julian Alison Moore, B.S., M.D., *Instructor in Histology.*
Andrew Purifoy Newcomb, *Assistant in Anatomy.*
Franklin Limer Payne, *Assistant in Pharmacology.*
Blackwell Markham, *Assistant in Bacteriology.*
David Jennings Rose, *Assistant in Pathology.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
John Grover Beard, Ph.G., *Professor of Pharmacy.*
Roy Hobart Souther, *Assistant in Chemistry.*
Thomas Pugh Dawson, *Assistant in Chemistry.*

HISTORICAL SKETCH

The School of Medicine was established in 1879 under the direction of Dr. Thomas W. Harris. A course in theoretical and practical medicine, as was the custom at the time, was offered, but this plan was found impracticable and was abandoned in 1886. In 1890, however, a more orderly and logical arrangement of the subjects of the medical course had begun, and it became possible for a university, without clinical facilities, to offer instruction in the elementary subjects. Dr. Richard H. Whitehead was then elected Professor of Anatomy, and under his guidance the School was re-opened and has continued without interruption. In 1900, the medical course having been extended in the better class of schools to four years, the subjects of the first two years were offered at the University. In 1902 a Clinical Department was established at Raleigh, but after several years of unsuccessful effort to provide for its proper support, it was abandoned. In 1908 the School was admitted to membership in the Association of American Medical Colleges.

REQUIREMENTS FOR ADMISSION

See pages 50-57, 59, 60.

EXPENSES

See pages 60-63.

COURSES OFFERED

The following courses are offered:

1. *A Premedical Course of Two College Years. This course is arranged to provide the subjects and number of hours required for admission by a large number of medical schools. It is offered as a guide to those students beginning a preparation for the study of medicine who are unwilling or unable to take a more extensive collegiate course.

2. *A Combined Course Leading to the Degree of Bachelor of Science. This is a combination of a course of three collegiate years including the subjects most fundamental in the preparation for the study of Medicine and the medical course of two years, on the completion of which the degree of Bachelor of Science is granted. The student may, therefore, obtain a collegiate degree and the degree of Doctor of Medicine in seven years. It is recommended to those who find it impracticable to spend four years in collegiate work.

3. The Medical Course. The course leading to the degree of Doctor of Medicine consists regularly of four years in strictly medical subjects. The subjects are arranged naturally into two main groups: the so-called Laboratory and Clinical groups, and two years are given to each group. The medical course offered includes the subjects of the first group and occupies a period of two years. On completing this course, the student is prepared to begin the study of the clinical subjects, and may enter the third year in other medical schools. Full credit is allowed in practically all medical schools.

THE MEDICAL COURSE

First Year

Biological Chemistry: Six hours weekly, first and second quarter.

Toxicology: Six hours weekly, third quarter.

Histology: Fifteen hours weekly, first quarter.

Osteology and Arthrology: Six hours weekly, first quarter.

*An outline of these courses is given on pages 112 and 115.

GROSS ANATOMY: Twenty-four hours weekly, second quarter.
NEUROLOGY: Eight hours weekly, third quarter.
EMBRYOLOGY: Three hours weekly, first and third quarters.
APPLIED ANATOMY: Nine hours weekly, third quarter.
PHARMACY: Six hours weekly, third quarter.

Second Year

PHYSIOLOGY: Six hours weekly, first half; nine hours weekly, second half.
PHYSIOLOGICAL CHEMISTRY: Six hours weekly, first half.
BACTERIOLOGY: Nine hours weekly, first half.
PATHOLOGY: Ten hours weekly, first half; twelve hours weekly, second half.
PHARMACOLOGY: Three hours weekly, first half; ten hours weekly, second half.
MINOR SURGERY AND PHYSICAL DIAGNOSIS: Four hours weekly, second half.
HYGIENE: One hour weekly, second half.

Summary of First and Second Years

Subjects	*Hours*
Chemistry (Biological)	180
Anatomy	680
Physiology	350
Bacteriology	135
Pathology	350
Pharmacology	210
Pharmacy	90
Minor Surgery and Physical Diagnosis	60
Hygiene	15

EXAMINATIONS

Regular examinations on the first year subjects will be held during the examination periods of the College of Liberal Arts at the close of each quarter. In the second year the examinations will be held at mid-term, and at the close of the year. Special examinations for the removal of conditions will be allowed during the week preceding the close of the third quarter and during registration week in September.

An examination will not be allowed a student who is charged with ten per cent of unexcused absences, or with absences amounting to twenty per cent of the total number of hours assigned the subject.

If the student receives the grade of 6 or its equivalent or fails on a second examination he will be required to repeat the course. If a first-year student fails to pass a major subject (Anatomy, Histology) or more than one minor subject he will not be registered as a second-year student the following year.

CERTIFICATES

A certificate will be granted to a student who completes satisfactorily the required preliminary work and the medical course. In the event of a failure to complete the work a statement indicating the subjects completed will be given. Credits will not be allowed for attendance only.

LABORATORIES

For description of the medical laboratories see page 42.

SCHOLARSHIPS

The Wood Scholarship. (Established in 1895.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her husband, the late Dr. Thomas Fanning Wood, a scholarship covering the tuition and fees.

COURSES OF INSTRUCTION

Chemistry

71. Organic Chemistry, Carbocyclic Series: Lectures and laboratory work. Prerequisite, Chemistry 70. *Fall Quarter.* Professor Wheeler and Messrs. Souther and Dawson.

Laboratory fee, $4.00.

72. Biological Chemistry: a special study of the fats, carbohydrates and proteins. Lectures and laboratory work. Prerequisite, Chemistry 70-71. *Winter Quarter.* Professor Wheeler and Messrs. Souther and Dawson.

Laboratory fee, $4.00.

73. Toxicology: The chemical behavior of poisons and their separation from foods and animal tissues. Prerequisite, Chemistry 70-71. *Spring Quarter.* Professor Wheeler and Mr. Dawson.

Laboratory fee, $4.00.

Anatomy

The courses include gross and microscopic anatomy, embryology the topography of the body, the application and relation of anatomy to medicine and surgery, and the anatomy of the Central Nervous system and the organs of Special Sense.

Ample facilities are offered to any who may desire to pursue advanced work in the field of Anatomy.

1. OSTEOLOGY AND ARTHROLOGY. Professor MANGUM. *Six hours weekly, Fall quarter.*

Detailed study of the skeleton, each student being provided with a complete set of disarticulated bones which he is required to demonstrate and draw.

The joints are studied from prepared specimens.

2. GENERAL HISTOLOGY AND ORGANOLOGY. Professor MANGUM and Dr. MOORE. *Fifteen hours weekly, Fall quarter.*

This course includes: (*a*) study of the fundamental tissues, followed by (*b*) the study of the microscopic structure of the various organs. Lectures, demonstrations, and laboratory.

Text: Lewis and Stöhr.

3. ADVANCED HISTOLOGY. Professor MANGUM. To those who have completed course 2 or its equivalent opportunity will be offered to pursue advanced work. Arrangements for this course may be made with the instructor.

4. EMBRYOLOGY. (General Development.) Professor MANGUM. *Three hours weekly, Fall quarter.*

Lectures upon the development of the human body.

Text: Bailey and Miller.

5. GROSS ANATOMY. Professor MANGUM and Mr. NEWCOMB. *Twenty-four hours weekly, Winter quarter.*

The student makes a complete dissection of the human body under the constant supervision and direction of an instructor, who insists upon the use of the texts, guides, and atlases, and holds practical examinations upon the cadaver. Laboratory talks, demonstrations, and conferences take the place of lectures.

Texts: Cunningham, Gray, Piersol.

6. Embryology. (Organogenesis.) Professor Mangum. *Three hours weekly, Spring quarter.*

Laboratory study of the embryos of the frog, chick, and pig, supplemented by lectures and demonstrations.

Text: Laboratory Text-Book: (Minot.)

7. Central Nervous System and Organs of Special Sense. Professor Mangum. *Eight hours weekly, Spring quarter.*

A special laboratory study of the gross and microscopic anatomy of the cord and encephalon. Each student is provided with numerous prepared dissections of the human brain and a series of sections through the cord and the brain stem, which he studies with the aid of a guide. A human brain is then given to each group of four men and by them dissected in order to correlate and systematize the work already done. A practical examination tests the student's ability to locate the various tracts and nuclei.

8. Applied Anatomy. Professor Lawson. *Nine hours weekly, Spring quarter.*

Embraces the external markings and surface anatomy of the organs (viscera, vessels, nerves, etc.), their location and interrelationships; topographical landmarks (normal and abnormal); incisions to reach arteries and nerves; influence of muscles upon fractures and luxations; and many other practical facts which may serve as aids to diagnosis and treatment. Instruction is by lectures and demonstrations upon the cadaver. Special dissections, preparations, models, and numerous drawings by the students are used as aids in this course.

Text: Davis.

Pharmacy

Pharmacy for Medical Students: Professor Beard. *Six hours weekly, Spring quarter.*

This course in pharmacy will consist of two lectures supplemented by two laboratory periods each week. Beginning with a consideration of the metric system as applied to writing prescriptions and preparing formulæ, the course will embrace, successively, medical arithmetic, prescription writing, official galenical and magistral preparations with their doses, cellulose and its compounds, carbohydrates, coal and wood tar products, resins, gums, esters, volatile oils, alkaloids, animal drugs, and, lastly, solubility and incompatibility. The student will be required to make the preparations commonly prescribed, in order that he may be

acquainted with their nature and composition. In addition, he must demonstrate the various forms of incompatibility liable to occur in prescriptions.

Text-book: DeLorme's *Manual of Pharmacy for Physicians.*

PHYSICAL DIAGNOSIS. Professor LAWSON.

Lectures and Laboratory: A brief course in the methods of physical examination, largely of the normal person. As far as possible abnormal heart and lung cases will be submitted for examination.

Text: DaCosta.

MINOR SURGERY. Professor LAWSON.

Lectures and Laboratory: The lecture course will cover the methods of the treatment of wounds, the dislocations, fractures, and some of the more common surgical conditions. In the laboratory the student is taught bandaging, and will be given an opportunity to practice some of the amputations and resections of joints on the cadaver.

Text: Wharton.

PHYSIOLOGY: Professor MANNING.

The course in Physiology is given in three parts, as follows:

1. General Physiology: a lecture course of five hours a week extending through the year; a brief account of cell physiology is followed by a detailed discussion of the facts and theories of Human Physiology; attention is called to the application of physiology in medical practice as far as possible.

Text: Howell.

2. Physiological Chemistry: a laboratory course of six hours a week during the fall term. The purely chemical aspects of Bio-chemistry are considered in the course in Organic Chemistry (Chem. 71-72) given in the first year. In the course in Physiological Chemistry a practical application of the principles of Bio-chemistry is made in the study of Human Physiology. The chemistry of digestion, of the secretions, of blood, and of the urine is studied in detail, qualitatively and quantitatively, and such tissues are examined as will afford evidence of the course of metabolic processes. Laboratory Notes.

References: Matthews, Hawk.

3. Experimental Physiology: a laboratory course of five hours a week during the spring term. In this course the student studies the heart and neuro-muscular systems on the turtle and the frog; the circulatory, respiratory, and glandular systems on the mammal. In the former the class is divided into groups of two and

in the latter into groups of four. Each group is supplied with mimeographed directions for the performance of each experiment and a full equipment of apparatus, and each student is required to keep a record of the observations, including tracings.

References: Stewart, Porter, Hill, etc.

Materia Medica and Pharmacology: Professor MacNider and Payne.

1. Materia Medica: the preliminary study of drugs is given as a part of the course in Pharmacy which extends throughout the spring term of the first year in medicine. The student is required to learn the various preparations of the more important drugs, their dose, and chemical incompatibilities. Each student makes representative preparations of the different drugs.

2. Pharmacology: the course in Pharmacology extends throughout the second year of the medical curriculum. The character of the work permits a division of the course into three parts: (*a*) A consideration of the ways in which drugs may affect the organism. This introduction embraces a discussion of the various physicochemical forces influencing drug activity, and the modification of the action of these conditions in different pathological states of the organism, such, for instance, as febrile conditions and various metabolic disturbances. (*b*) A general study of the pharmacology of the important drugs. The drugs are considered in groups depending upon their predominant effect in the body. The student learns the preparation, their dose, physiological incompatibilities, and considers in detail the way in which the drugs act as pharmacological agents. The symptoms and treatment of poisoning are considered following the discussion of the pharmacology of the group. (*c*) A consideration of the pharmacology of drugs in the pathological animal, with a discussion of the modification of drug activity in various pathological states. In conjunction with this study emphasis is given to the use of drugs as therapeutic agents and a study is made employing such remedies as are indicated in the form of a prescription. Students are required to write prescriptions, which are then subjected to the criticism of various members of the class and the instructor.

3. Pharmacodynamics: this part of the general course in pharmacology consists in a careful and accurate study of the action of practically all of the more important drugs on the lower animals. For this work, the higher animals, such as the cat and dog, are chiefly used. The class is divided into groups of two or four, and the experimental work is conducted by the student. Each student is required to hand in to the instructor at the completion of the

course a laboratory notebook containing a detailed account of each experiment, an explanation of the results obtained, and the tracings made during the experiment. Oral and written recitations are frequently held.

Text: Cushny, *Pharmacology and Therapeutics.* Reference: Sollmann, *A Manual of Pharmacology;* Meyer and Gottlieb, *Pharmacology, Experimental and Clinical;* Jackson, *Experimental Pharmacology.*

4. Advanced Pharmacology: two types of courses will be offered: (*a*) an experimental study of the action of various drugs upon the normal animal; (*b*) an experimental study of the action of various drugs and other agents upon the pathological animal.

BACTERIOLOGY: Professor MACNIDER and Mr. MARKHAM.

The student learns by practical experience the methods of cultivating, staining, and identifying the principal pathogenic bacteria. A few nonpathogenic and saprophytic forms are studied. The pathological significance of the various forms is explained by lectures, and the pathogenicity of some of the forms is determined by inoculation experiments performed by the class. At intervals during the course unknown organisms are given for identification. In addition to this, each student is required to isolate from the air, water, fecal matter, or pus, two organisms and determine their species. The latter part of the course is devoted to the bacteriological study of milk and water.

Text: Jordan. Reference: Park and McFarland.

PATHOLOGY: Professor BULLITT and Mr. ROSE.

1. This course embraces a consideration of General and Special Pathology from the chemical and physiological as well as the morphological aspects. Lectures and recitations are combined with laboratory work in a study of both gross and microscopical preparations.

In this work carefully selected loan sections form the basis for the study, but especial attention is paid to the experimental production, in laboratory animals, of the various common lesions due to mechanical, chemical, and bacterial agents. Under the guidance of the instructor the student produces these lesions and prepares his own specimens therefrom. Fall term, ten hours; spring term, twelve hours a week.

Text: MACCALLUM, MALLORY.

HYGIENE: Professor BULLITT.

A short course in the elementary principles of Hygiene and Sanitation.

Text: ROSENAU.

SCHEDULE OF RECITATIONS

First Year

First Quarter	Anatomy 8:30 Every day	Histology 9:45-12:45 Every day except Sat.	Embryology 9:45-12:45 Sat.	Biochem. 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.	
Second Quarter	Anatomy 8:30-12:45 Every day	Biochem. 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.			
Third Quarter	Neurology 9:45-12:45 Mon., Fri. 2:00-4:00 Fri.	Embryology 9:45-12:45 Wed.	Applied Anat. 8:30 Every day 9:45-12:45 Sat.	Toxicology 2:00-4:00 Mon., Wed. 2:00-3:00 Tues., Thurs.	Pharmacy 9:45-12:45 Tues., Thurs.

Second Year

First Half	Physiology 8:30 Every day	Physiological Chem. 2:00-4:00 Mon., Wed., Fri.	Bacteriology 9:45-12:45 Tues., Thurs., Sat.	Pathology 10:45-12:45 Mon., Wed., Fri. 2:00-4:00 Tues., Thurs.	Pharmacology 9:45 Mon., Wed., Fri.
Second Half	Physiology 9:45 Mon., Tues., Wed., Thurs. 10:45-12:45, 2:00-4:00 Mon., Fri.	Pathology 10:45-12:45 Tues., Wed., Thurs. 8:30-12:45 Sat. 2:00-4:00 Wed.	Pharmacology 8:30 Every day except Sat. 10:45-12:45, 2:00-4:00 Mon., Fri.	Minor Surgery Physical Diag. 2:00-4:00 Tues., Thurs.	Hygiene 9:45 Fri.

SCHOOL OF PHARMACY

FACULTY

Harry Woodburn Chase, Ph.D., *President.*
Edward Vernon Howell, A.B., Ph.G., *Dean.*
John Grover Beard, Ph.G., *Secretary.*

Edward Vernon Howell, A.B., Ph.G., *Professor of Pharmacy.*
John Grover Beard, Ph.G., *Professor of Pharmacy.*
Marion Lee Jacobs, *Assistant in Pharmacy.*
John Crayton Mills, *Assistant in Pharmacy.*
Francis Preston Venable, Ph.D., D.Sc., LL.D., *Francis Preston Venable Professor of Chemistry.*
William deBerniere McNider, M.D., *Professor of Pharmacology.*
William Chambers Coker, Ph.D., *Professor of Botany.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
James Talmage Dobbins, Ph.D., *Associate Professor of Chemistry.*
Henry Roland Totten, A.M., *Instructor in Botany.*
Ira Welborn Smithey, S.B., *Instructor in Chemistry.*
Ira Vilas Giles, S.B., *Instructor in Chemistry.*
Fletcher Humphreys Spry, *Assistant in Chemistry.*
Joseph Irvin Holland, *Assistant in Chemistry.*
Robert Otis Deitz, Jr., *Assistant in Chemistry.*
Woodford White, *Assistant in Chemistry.*

HISTORICAL SKETCH

In 1880 Dr. Thomas W. Harris, of the Medical School of the University, was instrumental in establishing a Pharmacy School in connection with the School of Medicine. Dr. Harris was Professor of Anatomy, Materia Medica, and Pharmacy. The faculty of the School of Pharmacy consisted, in addition to Professor Harris, of Frederick W. Simonds, Professor of Botany and Physiology, and Francis P. Venable, Professor of Chemistry. The course in pharmacy extended over two sessions of five months each, and led to the degree of Graduate in Pharmacy (Ph.G.). The school was continued until the resignation of Dr. Harris in

1886, when it was abandoned completely. In the fall of 1889 the school was revived by Dr. Richard H. Whitehead, but again its career was cut short.

In March of 1897 the present School of Pharmacy was established, and Edward Vernon Howell, A.B., Wake Forest College, and Ph.G. Philadelphia College of Pharmacy, was elected Professor of Pharmacy and given charge of the school. The school occupied the ground floor of the new West Building, which had been provided with laboratories, lecture rooms, a herbarium, and a reading room. The first lectures, offered in September of 1897, pertained to practical and theoretical pharmacy, materia medica, physiology, physics, general and analytical chemistry, and botany. The course extends over two sessions of nine months each and leads, as did the courses in the initial school, to the degree of Graduate in Pharmacy (Ph.G.).

The school has gradually developed with respect to members of the faculty, equipment, apparatus, and attendance. In the summer of 1912 it was moved to Person Hall, a commodious, well-lighted, well-ventilated building containing ten rooms. The pharmaceutical library has been made valuable by many historical and modern books on pharmacy and its allied branches and by bound volumes of proceedings and journals, either given by friends or purchased by the University. In 1914 two new courses in pharmacy were added to the curriculum: one, a three-year course, leads to the degree of Doctor of Pharmacy (P.D.); the other, also a three-year course, leads to the degree of Pharmaceutical Chemist (Ph.C.).

REQUIREMENTS FOR ADMISSION

See page 60.

EXPENSES

See pages 61-63.

REQUIREMENTS FOR GRADUATION

For the Degree of Graduate in Pharmacy (Ph. G.)

In order to be recommended for the degree of Graduate in Pharmacy the student must have completed the two-year course of study outlined on page 150. Work done in some other recognized school of pharmacy may be accepted for the first year of this course only.

He must obtain satisfactory marking in attendance, making a general average of 70 per cent in all courses, and submit a satis-

factory thesis. The student must have had a practical experience of at least four years with some qualified pharmacist in a dispensing store. The two years spent in college count as two years practical experience. Students who have not had the full four years experience will be permitted to stand examinations for graduation, but their diplomas will be withheld until they shall have satisfied this requirement. Of the four years of experience required for license by the State Board of Pharmacy, the work done in the pharmaceutical laboratory will count month for month, up to twenty-four months.

For the Degree of Doctor of Pharmacy (P.D.)

The degree of Doctor of Pharmacy is conferred upon graduates only after a year of residence at the University. They must pursue advanced work as outlined on page 151 and present a thesis embodying the results of an original investigation.

For the Degree of Pharmaceutical Chemist (Ph. C.)

The requirements for the degree of Pharmaceutical Chemist are the same as those for the degree of Doctor of Pharmacy, with the exception that no practical experience in a drug store is necessary as a prerequisite.

COURSE LEADING TO THE DEGREE OF GRADUATE IN PHARMACY

FIRST YEAR

Fall Quarter:

Pharmacy 1 (5)*
Pharmacy 4 (4)
Materia Medica 1 (5)
Chemistry 1 (6)

Winter Quarter:

Pharmacy 1 (5)
Pharmacy 4 (4)
Materia Medica 1 (5)
Chemistry 2 (6)

*Numbers in parenthesis indicate the hours devoted each week to the course and are to be understood as credit hours and not clock hours.

Spring Quarter:

Pharmacy 1 (5)*
Pharmacy 4 (2)
Botany 6 (6)
State Board Work (5)

SECOND YEAR

Fall Quarter:

Pharmacy 2 (5)
Pharmacy 6 (3)
Chemistry 31 (6)
Physiology (3)

Winter Quarter:

Pharmacy 2 (5)
Pharmacy 5 (8)
Physiology (to Feb. 1) (3)
Materia Medica 2 (after Feb. 1) (3)

Spring Quarter:

Pharmacy 2 (5)
Pharmacy 5 (4)
Materia Medica 2 (3)
Chemistry 73 (3)
Research (5)

COURSE LEADING TO THE DEGREE OF DOCTOR OF PHARMACY OR PHARMACEUTICAL CHEMIST

THIRD YEAR

The work of the third year is largely chemical and is arranged for each student according to the particular field he expects to prepare for. However, the following courses are required:

Pharmacy 7
Chemistry 41-42
Chemistry 61-62
Chemistry 63-64

COURSES OF INSTRUCTION

Pharmacy

1. Theory and Practice of Pharmacy. This course consists of lectures upon the following subjects, with practical demonstrations

*Numbers in parenthesis indicate the hours devoted each week to the course and are to be understood as credit hours and not clock hours.

and the employment of proper apparatus whenever necessary: metrology, comminution, heat evaporation, distillation, sublimation; fusion, calcination, granulation, oxidation, reduction, etc.; solution of solids, liquids, and gases; deliquescence, efflorescence, etc.; colation, filtration, decolorization, clarification, precipitation, etc.; macration, expression, infusion, decoction, etc.; percolation, and study of the following: waters, syrups, honeys, glycerites, mucilages, mixtures, spirits, elixirs, liniments, colodians, tinctures, wines, vinegars, and fluid extracts. Text: Remington, *Theory and Practice of Pharmacy*. First year. *Each quarter, five hours.* Professor HOWELL.

2. Theory and Practice of Pharmacy. The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds. Second year. *Each quarter, five hours.* Professor HOWELL.

3. Commercial Pharmacy. The need for commercial training in the practice of pharmacy is now thoroughly understood by every one. The School of Pharmacy has instituted a course in commercial pharmacy that is required of third-year students and is an elective for first- and second-year students. The fall term is devoted to the preliminary problems concerned in starting a drug business and getting it established upon a firm basis. Advertising and salesmanship are discussed at length. A series of eight lectures on the laws regulating the practice of pharmacy, sale of poisons, insurance, negotiable instruments, partnerships, and corporations will be given the students of this course by the Dean and Professors of the University School of Law.

The spring term is devoted to business arithmetic and correspondence and bookkeeping. Text-book: O'Connor's *Commercial Pharmacy*. Third year. *Fall quarter, two hours.* Professor BEARD.

4. Operative Pharmacy. (Laboratory.) This course is designed to demonstrate the various operations outlined in Pharmacy 1 and to drill the student in the correct preparation or manufacture of the galenicals and simple salts of the Pharmacopœia. He is required to make, under the direction of the instructors, those preparations which enter into a prescription, and is taught the correct uses of the different apparatus required in a drug store.

Text-book: Remington's *Theory and Practice of Pharmacy.* First year. *Fall and Winter quarters, four hours.* Professor Beard and Mr. Jacobs.

5. Operative Pharmacy. (Laboratory.) A continuation of course 4. A practical course which supplements the lectures in Pharmacy 2. Text-book: Remington's *Theory and Practice of Pharmacy* and Arny's *Principles of Pharmacy.* Second Year. *Winter and Spring quarters, six hours.* Professor Beard and Mr. Mills.

6. Urinary Analysis. By means of laboratory work, supplemented by lectures, the student is drilled in making thorough qualitative and quantitative analyses of urine. The phenomena of urine secretion and elimination and the physiological and pathological constituents of urine, with exhaustive tests for determining the presence or absence of these constituents, are fully dwelt upon. In addition, the student is taught to select and arrange the apparatus required to make urine analyses in the drug store. Second year. *Fall quarter, three hours.* Text-book: Hawks' *Physiological Chemistry.* Professor Beard.

7. Manufacturing Pharmacy. This course for third-year students will consist of lectures, supplemented by laboratory work. The preparation of pharmaceutical products on a commercial scale will be given much consideration, as will the economics of manufacturing. The student will be acquainted with the sources, importation, and market prices of those agents which enter into remedies and pharmaceuticals. *Fall and Winter quarters, five hours.* Professor Howell.

Materia Medica and Pharmacology

1. Materia Medica. 1. The individual drugs are considered from the standpoint of their origin, history, appearance, structure, active principles, chief medicinal properties, official preparations, and doses. These drugs are grouped and studied according to the families to which they belong. Later they are classified into the therapeutic groups, based on their action, *i. e.,* whether they are stimulants, alteratives, irritants, astringents, etc. The subject is amply illustrated from the large collection of the School, which includes all the drugs of the Pharmacopœia as well as many unofficial plant parts, by means of colored plates and pictures, and from the library, which contains a large number of

valuable books on the subject. Text-book: Sayre's *Organic Materia Medica.* First year. *Fall and Winter quarters, five hours.* Professor BEARD.

2. Materia Medica and Pharmacology. This course is devoted to a study of the origin and constitution of remedial measures, their preparations and doses, and in particular, their physiological action and the indications for their rational use. Opportunity will be given to students to familiarize themselves with the more important crude drugs and their preparations. Instruction is given by means of lectures, recitations, and demonstrations. *From February 1 to June 1, three hours.* Text-book: Sollman's *Action of Drugs.* Professor MACNIDER.

Physiology

Elementary Physiology. A somewhat elementary course on the structure and function of the human body during which lectures and recitations intended to acquaint the student sufficiently with the morphology and physiology of the human body are given to enable him to understand the processes of digestion, assimilation, circulation, respiration, and nerve action, and the physiological action of drugs. *From October 1 to February 1, three hours.* Text-book: Martin's *Human Body.* Professor MACNIDER.

Bacteriology

The student learns by practical experience the methods of cultivating, staining, and identifying the principal pathogenic bacteria, a few nonpathogenic and saprophytic forms are studied. The pathological significance of the various forms is explained by lectures, and the pathogenicity of some of the forms is determined by inoculation experiments performed by the class. At intervals during the course unknown organisms are given for identification. In addition to this, each student is required to isolate from the air, water, fecal matter, or pus, two organisms and determine their species. The latter part of the course is devoted to the bacteriological study of milk and water. Text: Jordan. Reference: Park and McFarland. Professor MACNIDER.

Botany

Botany 6. Pharmaceutical Botany: an introduction to the structure and classification of plants with special attention to

the drug plants; localizing of the mucilages, gums, oils, resins, glucosides, alkaloids, etc. Lectures with laboratory and field work. *Spring Quarter.* Mr. Totten.

Laboratory fee, $3.00.

Chemistry

For all courses in Chemistry see pages 203-206.

SCHOLARSHIPS

The North Carolina Pharmaceutical Association offers a scholarship of sixty dollars each year to a student who has completed with satisfaction the regular Junior course of study and who is recommended by the officers of the School.

PRIZES

The Bradham Prize, offered by Mr. C. D. Bradham, of New Bern, N. C., will be given to the student making the highest general average during the two years of study.

The Beard Prize. To the student who makes the best general average during the first year of study and who passes the North Carolina Board of Pharmacy examination at the completion of the same year will be given a membership in the North Carolina Pharmaceutical Association.

Prizes will also be given:

1. For the best thesis.
2. For the best collection of native medicinal herbs.
3. For the best exhibit of chemical salts made by a second-year student.
4. For the best work in the recognition of materia medica specimens.
5. To the student recognizing the largest number of pharmaceutical preparations.

PHARMACEUTICAL LABORATORIES

See page 43.

ADMISSION OF WOMEN

The profession of pharmacy offers inducements to well-educated, energetic young women. The University Pharmacy School is open to women, who can enter, under the same conditions and with the same privileges as men.

THE AMERICAN CONFERENCE OF PHARMACEUTICAL FACULTIES

The School of Pharmacy is a member of the American Conference of Pharmaceutical Faculties, the object of which is the promotion of higher pharmaceutical education. Through the influence of the Conference higher standards of education are being adopted from time to time by its members and others, evidenced by the fact that several States by law or by Board of Pharmacy rulings recognize the standards set by the Conference. Member-colleges must maintain certain minimum entrance and graduation requirements. This school exceeds these requirements.

WILLIAM SIMPSON PHARMACEUTICAL SOCIETY

This society was inaugurated by the Class of 1913. It is named in honor of the late William Simpson, of Raleigh, a pioneer druggist and teacher.

The society holds weekly meetings. At these meetings papers are read by the various student members, and discussions of the papers follow. At stated intervals, debates are held on subjects of particular interest to pharmacists.

CAROLINA JOURNAL OF PHARMACY

The Carolina Journal of Pharmacy is a quarterly publication which is edited by the members of the William Simpson Pharmaceutical Society. Initiated by the Society in 1915, it has developed rapidly in respect to size and circulation. It is intended that the publication be of interest to students and alumni of this school and to druggists throughout the State. The editorial staff is composed of two members of the faculty of the Pharmacy School, two alumni members, two society members, and four practicing druggists.

THE BUREAU OF EXTENSION

The Bureau of Extension offers to the people of the State:

I. GENERAL INFORMATION

Concerning books, readings, essays, study outlines, and subjects of general interest. Literature will be loaned from the Library upon the payment of transportation charges each way.

II. GUIDANCE IN DEBATE AND DECLAMATION

This division of the Bureau of Extension offers assistance in two ways:

1. Material is sent from the Library for use in debate and declamation upon the payment of the transportation charges.

2. Through the High School Debating Union it supervises a State-wide debate which culminates in the contest at the University for the Aycock Memorial Cup.

The final contest of the session 1912-1913, in which seventeen schools out of ninety participated, was won by Messrs. Grady Bowman and Samuel C. Hodgin of the Pleasant Garden High School, Guilford County. The final contest of the session 1913-1914, in which forty-one schools out of one hundred and fifty participated, was won by Messrs. Clifton Eaton and Charles Roddick of the Winston-Salem High School. The final contest of 1914-1915, in which fifty out of two hundred and fifty participated, was won by Misses Lalla Rook Flemming and Ethel Gardner of the Wilson High School. The final contest of 1915-1916, in which sixty-eight out of three hundred and twenty-five participated, was won by Miss Myrtle Cooper and Mr. Boyd Harden of the Graham High School. The final contest of 1916-1917, in which seventy-six out of three hundred and thirty-one participated, was won by Vinson Smathers and Roy Francis of the Waynesville High School. The final contests of 1918-1919, in which forty-one schools out of one hundred and eighty participated, was won by Miss Aura Holton and Leo Brady of the Durham High School.

The following bulletins have been issued:

Woman's Suffrage.
Addresses on Education for Use in Declamation.
The Initiative and Referendum.
Public Discussion and Debate.
Ship Subsidies.
The Enlargement of the Navy.
Government Ownership of Railways.
Compulsory Arbitration of Industrial Disputes.
Restricted Immigration.

III. HOME STUDY COURSES

The Home Study division of the Bureau of Extension offers courses of elementary school, high school, and college grade. Students who complete the courses satisfactorily will be given appropriate certificates.

Through this division the opportunity is given to groups to organize into classes and receive direct oral instruction from the instructor in charge of their course.

A charge of $5 is made for a course of elementary school grade; for each course of high school grade a charge of $7.50 is made; college grade courses cost $10 each.

The charge for group or class teaching is according to conditions. An announcement of courses is published annually and information will be furnished upon request.

IV. INSTRUCTION BY LECTURES

Announcement

For several years the University has conducted a lecture bureau for the purpose of aiding schools and other organizations in obtaining speakers to discuss with them the problems incident to their daily activities and to interest them in those things which look to the upbuilding of the State and the cultivation of the finer things of the spirit. During the participation of our nation in the world war, the University conceived it to be its duty to give special prominence to such work as would afford guidance in the popular solution of the great problems which confronted our democracy at that time. To this end it offered in addition to its usual program, a number of more extended lecture-courses dealing with the causes and aspects of the war. The same plan has been continued, but with the subject matter

of the courses changed in that emphasis has been placed upon the political, economic, social, and intellectual results of the war in so far as they are evident in our contemporary civilization.

In continuation of the policy of recent years, these courses, in whole or in part, or individual lectures on miscellaneous topics, have been furnished wherever there is a demand for them whatever the size of the community.

Teachers' institutes, chambers of commerce, boards of trade, women's clubs, Y. M. C. A. centers, farmers' conventions and meetings, school boards, study clubs, and other organizations can arrange for lectures by applying for them. The University is prepared also to extend its resources of instruction wherever practicable, to other educational institutions. Addresses for special occasions, such as school and college commencements, are supplied upon application, as the need arises.

Community Centers

While attaching much importance to such co-operation with individual organizations as is outlined above, the University is looking with still deeper interest to the establishment of direct educational relations with larger community organizations formed by a combination of all the units of democracy and embracing members of every class and interest. The war has made us realize as never before the imperative need of communal organizations for constructive public service, and they are rapidly being formed throughout the country. The University regards such community organizations as proper instrumentalities of democracy and earnestly recommends that, in order for these agencies to effect the best and most widely operative results, they should be representative of as many as possible of the local social groups of men and women.

Application and Terms

The traveling and incidental expenses of the lecturer are borne by the organization for which the lecture is made. In the case of illustrated lectures, there may be an additional expense for the operator of the lantern if an operator is not supplied locally.

Subjects Offered

Lectures are offered on the following subjects: Eight on Citizenship; eight on Americanization; four on Economic Problems of Peace and Reconstruction; five on The South After the

War; three on The Social Program of Democracy; five on Prophets of the New Democracy; four on Politics and Government; five on The Drama and Democracy; five on Games and Physical Culture; three on Community Music; five on Town and City Improvements, and one hundred and five on miscellaneous subjects. Each year the division publishes an announcement, copies of which can be secured upon application.

V. COUNTY ECONOMIC AND SOCIAL SURVEYS

This division of the Bureau of Extension has the supervision of the investigations of the County Clubs, whose purpose is to aid through wisely directed study the efforts to better the economic and social conditions in the various communities of the State.

The following bulletins have been issued:

Co-operative Institutions Among the Farmers of Catawba County.
Syllabus of Home-County Club Studies.
Country-Life Institutes.
The North Carolina Club Year-Book, 1915-1916.
Sampson County: Economic and Social.
The North Carolina Year-Book, 1916-1917.
Local Study-Clubs: Essays at Citizenship.
The North Carolina Club Year-Book, 1917-1918.
Wake County: Economic and Social.
Durham County: Economic and Social.
Rutherford County: Economic and Social.
Rockingham County: Economic and Social.

The following circulars have been issued:

Our Country Church Problem.
Our Carolina Highlanders.
Wealth, Welfare, and Willingness in North Carolina.
County Government and County Affairs.

State and County Council

This division also has supervision of the State and County Council which has been established as a clearing house for information concerning public education, health, roads, social service, and taxation. An annual conference of from three to five days is held during the Summer in which the North Carolina Association of County Commissioners and the State departments of Education, Health, Public Welfare, Highways, and Taxation

participate. The conference for 1919 was held September 15-20, and was attended by three hundred welfare workers. The Governor of the State presided.

The Conference has issued the following publications:

Proceedings of the First State and County Council.

VI. MUNICIPAL REFERENCE AIDS

The work of this division consists in the study of municipal legislative problems and in the furnishing of material that bears upon current municipal improvement and legislation.

VII. EDUCATIONAL INFORMATION AND ASSISTANCE

For teachers, principals, superintendents, school communities and boards. The School of Education acts as a clearing house for information concerning all phases of educational work and conducts a teachers' bureau as an aid to communities and schools in securing efficient teachers.

The following bulletins have been published relating to the work of this division:

A Professional Library for Teachers in Secondary Schools.

The Teaching of County Geography.

Measurement of Achievement in the Fundamental Elementary School Subjects.

Standard Educational Tests.

Comparative Results of a State-wide Use of Standard Tests and Measurements.

A Study of the Public Schools in Orange County.

VIII. INSTRUCTION IN ROAD ENGINEERING

Under the direction of the North Carolina Geological and Economic Survey and of the Department of Civil Engineering of the University, instruction in highway engineering is given through the medium of a Road Institute held annually at the University. This Institute is attended by more than a hundred road engineers and supervisors, and road and county commissioners in addition to University students in engineering. Instruction is given through a session of a week by lectures, discussions, exhibits, and practical demonstrations. The Director of the Institute, Dr. Joseph Hyde Pratt, is assisted by members of the University faculty and professors from other universities,

by prominent engineers and commissioners, by highway officers of this and other States, and by representatives of the office of Public Roads of the Federal Government. An annual bulletin and circulars relating to the Institute are issued from the office of the State Geologist. The Institute was not held in 1918-1919, but consideration was given to road problems in connection with the State and County Council held September 15-20, in which Hon. Frank Page, Chairman of the State Highway Commission, participated.

IX. COURSES FOR CLUB STUDY

Through this division the Bureau of Extension offers assistance to the Women's clubs of the State, whether belonging to the Federation or otherwise, through the preparation of programs for sustained study and the loan of reference material from the library. One or more programs are issued by the division each year, with subjects assigned for special papers. References are given to source material and books are loaned upon request. Information is given concerning special programs, and requests for information on any topic of interest to members of clubs is gladly furnished. In the case of clubs following the printed programs, a charge of twenty-five cents per number is made, and postage on books must be paid by the borrower.

Printed programs have been provided on the following subjects: South America, The Literary and Historical Background of the Great War, Americanization, Citizenship.

X. COUNTRY HOME COMFORTS

The General Assembly of 1917 authorized the State Highway Commission "to advise and assist in providing a water supply and electric power and electric lights for rural communities and individuals outside of incorporated towns, by investigating natural powers and preparing plans for their development and the installation of such apparatus as may be needed to utilize such water power in developing electric power and for supplying a water system and electric light system, and to furnish plans and specifications for the installation of rural mutual telephone systems."

In order to carry out the purposes of this law the State Highway Commission has enlisted the services of the Engineering Departments of the University, and this work is being carried on by a staff of engineers organized under the Bureau of Exten-

sion as the Division of Country Home Comforts and Conveniences. The headquarters of this division are at Chapel Hill, and Professor P. H. Daggett is in charge of the division.

The following publications have been issued:

Electric Light and Power, Water Supply, Sanitation, and Telephones.

Sanitation in the South.

PUBLICATIONS

The Bureau of Extension maintains the following publications:

Extension Series Bulletin.
School of Education Letter Series.
University of North Carolina News Letter.
Extension Series Circulars.
Extension Leaflets.

THE SUMMER SCHOOL

FACULTY AND OFFICERS

(1919)

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GEORGE PICKARD, *Superintendent of Buildings and Grounds.*
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HENRY B. MARROW, A.B., *Secretary, Teachers' Bureau.*
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MISS ELSIE B. HELLER, *Secretary, Y. W. C. A.*

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Faculty Committee on Graduate School: Professors RAPER, CHASE, GREENLAW.

Committee on Normal Courses and Demonstration School: Professors NOBLE, WILLIAMS, Mr. GRIFFIN, Mr. PUSEY, Mr. MORRISON.

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University of North Carolina

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Rural Supervisor of Elementary Schools of Halifax County

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University of North Carolina

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Trinity College, N. C.

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Professor of Piano and Music Pedagogy
Meredith College, Raleigh, N. C.

WESLEY CRITZ GEORGE, Ph.D.....ZOOLOGY AND BOTANY
Adjunct Professor of Zoology
The University of Georgia

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Teacher in Chapel Hill High School

ISAAC CEBERN GRIFFIN.....GRAMMAR SCHOOL METHODS
Superintendent of the Shelby, N. C., Graded Schools

GUSTAV HAGEDORN.....PUBLIC SCHOOL MUSIC
Supervisor of Music in the Public Schools of Raleigh, N. C.

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American Red Cross

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Assistant Professor of Latin
University of North Carolina

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Instructor in Mathematics
University of North Carolina

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Professor of the Latin Language and Literature
University of North Carolina

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Supervisor of Writing in the Durham City Schools

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Student in Elementary Education
Teachers College, Columbia University

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University of North Carolina

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Professor of Dramatic Literature
University of North Carolina

MISS BETTY AIKEN LAND.....PRIMARY METHODS
Supervisor of Elementary Schools of Guilford County

ROBERT BAKER LAWSON, M.D.....PHYSICAL EDUCATION
Director of the Gymnasium
University of North Carolina

MRS. WALTER LEE LEDNUM.....STENOGRAPHY AND TYPEWRITING
President, Durham, N. C., Business School

EDGAR LONG, M.A.....ENGLISH
Professor of English
Erskine College, Due West, S. C.

GEORGE McFARLAND McKIE, A.M.....ENGLISH
Associate Professor of Public Speaking
University of North Carolina

HENRY BURWELL MARROW, A.B.....SCHOOL LAW
Superintendent of Schools
Smithfield, N. C.

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Professor of Anatomy
University of North Carolina

MISS HENRIETTE MARIE MASSELING.....STORY-TELLING
Story Specialist in the City Schools of Atlanta, Ga.

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Assistant in English
University of North Carolina

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SUPERINTENDENT OF DEMONSTRATION SCHOOL
Superintendent of the Chapel Hill Graded School

MISS MAMIE L. NEWMAN, A.B., M.A.....HOME ECONOMICS
Home Economics, Virginia State Normal School
Farmville, Va.

MARCUS CICERO STEPHENS NOBLE.....PEDAGOGY
Professor Pedagogy and Dean of the School of Education
University of North Carolina

STUART GRAYSON NOBLE, Ph.D.....EDUCATION
Professor of Education
Millsaps College, Jackson, Mississippi

MISS HELEN E. OSBORNE.....RED CROSS DIETETICS
American Red Cross

ANDREW HENRY PATTERSON, A.M.....PHYSICS
Professor Physics
University of North Carolina

GUY B. PHILLIPS, A.B.....HIGH SCHOOL
Superintendent Oxford Graded Schools

WILLIAM WHATLEY PIERSON, JR., Ph.D.....HISTORY
Assistant Professor of History
University of North Carolina

MISS MARY POORE.....WRITING
Supervisor of Writing in the City Schools of Birmingham, Ala.

EDWIN DAVIS PUSEY, A.M.....GRAMMAR SCHOOL METHODS
Superintendent of City Schools, Durham, N. C.

E. OSCAR RANDOLPH, M.A., Lit.D.....GEOLOGY
Professor of Geology
State College, Texas

WILLIAM WALTER RANKIN, JR., A.M.....MATHEMATICS
Instructor in Mathematics
University of North Carolina

MISS DORIS P. ROSENTHAL.....DRAWING
Head of the Art Department
California State Normal School, Santa Barbara

S. G. RUBINOW, B.S.A., M.S.....AGRICULTURE
Agricultural Extension Service, Raleigh, N. C.

SAMUEL LLOYD SHEEP, M.E.....ARITHMETIC
Superintendent of City Schools, Elizabeth City, N. C.

MISS HELEN REID SHELL.....DEMONSTRATION SCHOOL
Teacher in the Chapel Hill Graded School

RICHARD HURT THORNTON, A.M.....ENGLISH
Assistant Professor of English
University of North Carolina

WALTER DALLAM TOY, M.A.....GERMAN
Professor of the Germanic Languages and Literatures
University of North Carolina

ADOLPH VERMONT, A.M.....FRENCH
Professor of French
Converse College, Spartanburg, S. C.

HENRY McGILBERT WAGSTAFF, Ph.D.....HISTORY
Professor of History
University of North Carolina

ALVIN SAWYER WHEELER, Ph.D.....CHEMISTRY
Professor of Organic Chemistry
University of North Carolina

LESTER ALONZO WILLIAMS, Pd.D.....SCHOOL ADMINISTRATION
Professor of School Administration
University of North Carolina

LOUIS ROUND WILSON, Ph.D.....LIBRARY SCIENCE
Professor of Library Science and Director of Extension
University of North Carolina

LECTURES

Among the prominent lecturers who appeared before the Summer School were the following:

DR. EDWIN MIMS, Professor of English, Vanderbilt University.

DR. STEPHEN S. COLVIN, Director of the School of Education, Brown University.

DR. EDGAR J. BANKS, Author, Lecturer, Explorer, Alpine, New Jersey.

Dr. Frederich H. Koch, Professor of Dramatic Literature, University of North Carolina.

Dr. Henry E. Jackson, Special Agent in Community Organization, U. S. Bureau of Education.

Dr. E. C. Brooks, State Superintendent of Public Instruction for North Carolina.

Dr. Collier Cobb, Professor of Geology, University of North Carolina.

Prof. L. L. Friend, Supervisor of High Schools for West Virgina.

Supt. John J. Blair, of the Wilmington Schools.

Miss Doris P. Rosenthal, Head of the Art Department California State Normal School, Santa Barbara.

Miss Harriet Elliott, North Carolina College for Women.

Dr. Eva M. Blake, of the Y. W. C. A., New York.

COURSES OF INSTRUCTION

The letter s, meaning summer, is prefixed to the numbers of courses to distinguish them from the numbers employed in the annual catalogue to designate the courses of the regular college year.

Courses numbered from s 1 to s 10 inclusive count only for entrance or for normal credit, such credit being indicated by the letters E and N respectively.

Courses counting for college or university credit begin their numbering in each department with s 11. The letter C indicates that a course is of college grade and may be counted towards the bachelor's degree; the abbreviation Grad. indicates that a course so marked is of graduate grade and may be counted as a major towards the master's degree.

In most courses, it will be observed, the hours have not been scheduled. A daily schedule of recitations showing the hours and places of meeting will be given to each student on registering. Ask for this before you register.

Any changes in courses as announced will be published in a *Supplementary Announcement* prior to the opening of the Summer School. Ask for a copy of this before you register.

AGRICULTURE

s 1. THE TEACHING OF AGRICULTURE IN ELEMENTARY SCHOOLS. Credit, 1 hour. N.

Mr. RUBINOW. *Five hours a week.*

This course will cover the fundamental facts in Agriculture. It is designed primarily for teachers of intermediate and grammar grades who have had little or no preparation for teaching the subject. In addition to technical subject matter, special emphasis will be placed upon successful methods of introducing and presenting Agriculture to country school pupils. Home, school, and field projects, covering both technical matter and methods, will be included in this course. Lectures, demonstrations, readings, reports.

ANATOMY

s 7. CENTRAL NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE. Credit in Medical School.

Dr. MANGUM. *Eighteen hours a week.*

A special laboratory study of the gross and microscopic anatomy of the cord and encephalon. Each student is provided with numerous prepared dissections of the human brain and a series of sections through the cord and the brain stem, which he studies with the aid of a guide. A human brain is then given to each group of four men and by them dissected in order to correlate and systematize the work already done. A practical examination tests the student's ability to locate the various tracts and nuclei.

BOTANY

s 1. ELEMENTARY BOTANY. Credit, 1 hour. N.

Mr. GEORGE. *Five hours a week.*

This is a course for beginners. It is designed especially to help teachers in elementary and secondary schools. Lectures, assigned readings, field trips. Text-book: Bergen and Caldwell, *Practical Botany* (Ginn & Company).

s 11. ELEMENTARY BOTANY. Credit, 1½ hours. C.

Mr. GEORGE. *Ten hours a week.*

This course is given for those desiring college credit. It is more advanced than course s 1, and requires more laboratory work. Lectures, readings, field trips, laboratory.

CHEMISTRY

s 11. GENERAL DESCRIPTIVE CHEMISTRY. Credit, 2 hours. C.
Mr. Bell. *Fourteen hours a week.*

A study of the non-metallic elements and their compounds. This course is equivalent to the University course, Chemistry 1. Daily lectures. Weekly quiz. Laboratory work seven hours weekly.

s 12. GENERAL DESCRIPTIVE CHEMISTRY. Credit, 2 hours. C.
Mr. Wheeler. *Fourteen hours a week.*

A study of the metallic elements and their compounds. This course is equivalent to the University course, Chemistry 2. Daily lectures. Weekly quiz. Laboratory work seven hours weekly.

Laboratory fee, $2.50.

s 13. QUALITATIVE ANALYSIS. Credit, 1½ hours. C.
Mr. Wheeler. *June 26-July 15. Five hours daily.*

Practice is given in the qualitative analysis of known and unknown mixtures. This course is the equivalent of the University course, Chemistry 33. Credit for pre-medical, B.S. II and B.S. IV courses. Additional hours may be taken and credit obtained for the University course, Chemistry 31-32.

Laboratory fee, $7.50.

s 14. QUANTITATIVE ANALYSIS. Credit, 1 hour. C.
Mr. Bell. *July 15-August 5. Four hours daily.*

A brief course in both gravimetrical and volumetrical methods of analysis. This course is the equivalent of the University course, Chemistry 44. Credit for pre-medical, B.S. II and B.S. IV courses.

Laboratory fee, $5.00.

s 20. ADVANCED CHEMISTRY. Credit, 1 hour. C.
Mr. Wheeler. *Daily.*

This course is offered to those advanced students who wish to continue their research studies either in organic, inorganic, or physical chemistry. The fee will vary with the nature of the work.

COMMERCIAL COURSES

s 1. STENOGRAPHY. Credit, 1 hour. N.
Mrs. LEDNUM. *Five hours a week.*

The principles of Isaac Pitman Stenography will be presented. This course is planned for beginners and may be taken in conjunction with the corresponding typewriting course. With close application the student should acquire a teaching knowledge of shorthand or be able to enter a dictation class at the close of a six weeks' term. The mastery of the principles of shorthand is the object of this course whether it be for teaching purposes or for practical application.

s 2. TYPEWRITING. Credit, 1 hour. N.
Mrs. LEDNUM. *Five hours a week.*

In addition to a careful presentation of the principles of touch typewriting and a description of the parts of the typewriter, the following subjects will be studied and practiced: the different parts and the various arrangements of business letters, the making of carbon copies, the common commercial abbrevations and the preparation of out-going mail. This may be taken independently of the other subjects. The students of stenography and typewriting will find the course in Business English very helpful.

s 3. BUSINESS ENGLISH. Credit, ½ hour. N.
Mrs. LEDNUM. *Three hours a week.*

This course is planned for those who are interested in the best practices of modern business English. The aim is to show how the English language can be used to make people act. Various types of letters—such as letters of application, adjustment, sales, follow-up, and collection will be analyzed. The value of business English cannot be overestimated when we stop to consider that two-thirds of the writing we do after leaving school is in the form of letters.

s 4. OFFICE TRAINING FOR STENOGRAPHERS.
Mrs. LEDNUM. Credit, ½ hour. N.
Three hours a week.

This course offers the finishing touches to the stenographic course. It gives a knowledge and training that employers designate as "experience." Twelve distinct and vital phases of office work will be handled. This is not an appendix, but an integral part of the stenographic course. The principles learned are

applied. The student begins to make use of his knowledge instantly, and if he leaves before he completes the course what he has learned is of constant practical use. The only prerequisite for this course is a knowledge of the principles of shorthand and typewriting.

DRAWING

The courses in Drawing are planned with a view to giving teachers the knowledge and skill necessary to the teaching of school arts in rural and city schools. Plans by which the acquired knowledge can be adapted to the needs of different grades, and methods of presenting lessons in each grade will be carefully discussed and taught. The state-adopted course in drawing will be the basis of instruction though the work will not be confined wholly to this.

s 1. PRIMARY DIVISION. Credit, 1 hour. N.
Miss Rosenthal. *Five hours a week.*

This course is designed for the first, second, and third grades. Its aim will be to give the student an acquaintance with the art elements and principles; suitability of various mediums (as crayola, cut paper, brush and ink, and water color) for the lower grades. Different methods of teaching such subjects as flowers, birds and animals, still life, lettering, illustration and simple construction problems in the lower grades.

Section I— 9:40.
Section II—11:50.

s 2. GRAMMAR DIVISION. Credit, 1 hour. N.
Mr. Blair. *Five hours a week.*

This course is designed for teachers of the fourth, fifth, sixth, and seventh grades.

Section I— 8:50.
Section II—11:00.

s 3. ADVANCED DIVISION. Credit, 1 hour. N.
Mr. Blair. *Five hours a week.*

This course is designed for former students who have attained the required degree of proficiency to pursue it with profit and for supervisors of drawing.

ECONOMICS

s 11. GENERAL ECONOMICS. Credit, 1 hour. C.
Mr. CARROLL. *Five hours a week.*

This course is planned to give a general understanding of the fundamental principles underlying our complicated industrial life. An analysis is made of consumption, production, and distribution; of the elements which determine value and price; with a brief introduction to money, banking and credit; monopoly, business combinations, transportation, the labor problems, and socialism. The course will be of a practical nature and particularly adapted to meet the needs of those who desire to introduce the study of Economics in the high schools.

s 14. THEORIES OF ECONOMIC REFORM.
Mr. CARROLL. Credit, 1 hour. C. or Grad.
Five hours a week.

The object in this course will be to examine critically the most prominent of the current proposals of economic reform, such as socialism, Bolshevism, the single tax, profit sharing and labor co-partnership, and industrial democracy. This course may be taken by those who wish neither college nor graduate credit.

NOTE.—This course may not be offered in 1919 unless applied for in advance by as many as ten students. See note on s 15 below.

EDUCATION

s 1. GENERAL METHODS IN PRIMARY SCHOOL SUBJECTS.
Credit, each section, 1 hour. N.
Each section, five hours a week.

This course will be given in four sections, as indicated below. The work of all four sections comprises a study of the subjects taught in the primary grades (1, 2, and 3). The content of the subjects, as well as methods of teaching them, will be given attention. The work will, however, be varied in each section to meet the needs of the students for whom the section is intended. Students should consult the Committee on Registration before deciding which of the sections to enter.

SECTION I. Miss LAND.

This section is intended for teachers who have had little or no professional training. The work will be of an elementary nature. The subject matter for each grade will be

outlined and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Demonstration School.

SECTION II. Miss LAND.

This section is intended for teachers in *country* schools who have had such professional training as is to be gained in teachers' training schools, educational courses in normal schools or colleges, etc. This course will deal with methods of teaching various subjects in the primary grades, types of lessons; supplementary material; critical study of State adopted books; standards for each grade required by State course of study. Lectures, readings, observations, discussions.

SECTION III. Miss KIRBY.

This section is intended for primary teachers in *city* schools who have had such professional training as is to be gained in teachers' training schools, educational courses in normal schools and colleges, etc.

SECTION IV. Miss CHERRY.

This section is intended primarily for high school graduates without experience and without professional training who are preparing to teach in the country schools. The work will be of an elementary nature. The subject matter for each grade will be outlined and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Demonstration School.

s 2. SPECIAL METHODS IN PRIMARY SCHOOL SUBJECTS.

Credit, each section, 1 hour. N.
Each section, five hours a week.

Teachers should consult the Committee on Registration before deciding for which of these sections to register. The courses will stress subject matter rather than methods, but will treat both.

I. THE TEACHING OF READING. Miss KIRBY.

While some attention will be given in this course to the teaching of phonics, the reading problem as a whole will be the central consideration.

II. THE TEACHING OF NUMBER AND LANGUAGE WORK.
Miss CHERRY.

The course will consider both the subject matter to be covered in the primary grades and methods of presentation.

s 3. GENERAL METHODS IN GRAMMAR SCHOOL SUBJECTS.
Credit, each section, 1 hour. N.
Each section, five hours a week.

This course will follow Educational Bulletin VIII, *An Outline Course of Study for the Elementary Schools, Grades 4-7*, inclusive. The State-adopted text-books will be used. The study of methods will be based upon Rapeer's *How to Teach Elementary School Subjects*, and Leiper's *Language Work in Elementary Schools*. Observation in Demonstration School will be required. Parallel reading required.

I. ENGLISH, HISTORY, SPELLING. Mr. GRIFFIN.

II. ARITHMETIC, GEOGRAPHY, PHYSIOLOGY AND HYGIENE.
Mr. GRIFFIN.

III. CLASS MANAGEMENT. Mr. GRIFFIN.

The problems of handling the class in such matters as routine and discipline, promotion, conduct of recitation, etc., will be considered. Preparation for the first of school, the daily schedule, attendance, interest and attention, and other problems in class management will be discussed. Observation in Demonstration School. Text: Bagley's *Class Management*.

s 4. SPECIAL METHODS IN GRAMMAR SCHOOL SUBJECTS.
Credit, each course, 1 hour. N.
Each course, five hours a week.

Teachers should consult the Committee on Registration before registering for any of these courses. The courses will stress subject matter rather than methods, but will include both.

I. THE TEACHING OF ENGLISH. Mr. STUART NOBLE.

This course will discuss the various types of language work usually presented in the grammar grades.

II. THE TEACHING OF HISTORY. Mr. PUSEY.

The course will consider the teaching of United States History, attention being given to both subject matter and methods of presentation.

III. THE TEACHING OF ARITHMETIC. Mr. M. C. S. NOBLE.

This is a course in methods of teaching arithmetic in the grammar grades. An effort will be made to discover in concrete examples the "four fundamental rules" of arithmetic and also the best method of applying those rules in the problems of everyday affairs. Lectures, assigned work, parallel readings, the preparation of lesson plans, etc.

IV. THE TEACHING OF GEOGRAPHY. Mr. M. C. S. NOBLE.

This is a course in the teaching of geography in the grammar grades. One purpose of the course will be to show how to observe the influence of geographic laws while teaching local, State, and national geography. A study will be made of many North Carolinians who have helped to make the political geography and history of State and nation and whose portraits adorn the walls of the literary societies of the University. Special attention will be given to the collection of material for use in reinforcing the subject matter of the text-books. Lectures, assigned work, parallel readings, the preparation of lesson plans, etc.

V. THE TEACHING OF CIVICS. Mr. STUART NOBLE.

This course will treat somewhat broadly the problem of training pupils for citizenship. The study of the following topics will in part constitute the course: (1) The urgent need for a clear interpretation of democracy in the present world crisis; (2) Citizenship as an ideal of education; (3) Testing the civic value of materials found in history, hygiene, sanitation, and other school subjects; (4) Training pupils by having them participate in civic activities such as the sale of thrift stamps, making of crop surveys, etc.; (5) Selection of instruction materials needful in the study of civics in the grades and in the high school; (6) The problem method in the study of civics.

s 5. CHILD PSYCHOLOGY. Credit, 1 hour. N.

Mr. STUART NOBLE. *Five hours a week.*

The physical, mental, social and moral development of the child; the stages of growth, point of view and reactions of the child; the instincts, play, imitation, constructiveness, acquisitiveness, etc., and their full significance in choosing subject matter and methods for primary grades; arrested development; psychology of individual differences in children to reveal how education is conditioned upon the stages of individual development; flexi-

ble grading; backward and exceptional children; child study for parents and teachers; theories and methods of some of the great leaders in child study, including Froebel, Pestalozzi, Hall, Dewey, Montessori. Text-book (part time): Kirkpatrick's *Fundamentals of Child Study.*

s 6. STORY-TELLING (SECTION I). Credit, each section, 1 hour. N.

Miss MASSELING. *Each section, five hours a week.*

This course is designed for teachers of the first, second, third, and fourth grades. Lectures on the art of story-telling, origin and history of story-telling, use of the story in education. Selection and adaptation of story and correlation with regular work of classroom. A study of fairy and folk tales, mythological tales, nature stories, Bible stories, the great national epics with their uses, and the arranging of programs of miscellaneous stories. The educative value of dramatizing the story in the schoolroom. Suggestive lists of stories. Practice in adapting and telling stories. Observation and work in the Demonstration School under supervision.

s 6. STORY-TELLING (SECTION II). Credit, 1 hour. N.

Miss MASSELING. *Five hours a week.*

This course is designed for teachers of the fifth, sixth, and seventh grades. Lectures on the art of story-telling, origin and history of story-telling, use of the story in education. Selection and adaptation of story and correlation with regular work of classroom. A study of fairy and folk tales, mythological tales, nature stories, Bible stories, the great national epics with their uses, and the arranging of programs of miscellaneous stories. The educative value of dramatizing the story in the schoolroom. Suggestive lists of stories. Practice in adapting and telling stories. Observation and work in the Demonstration School under supervision.

s 7. PHYSICAL EDUCATION. Credit, 1 hour. N.

Dr. LAWSON and Miss MASSELING. *Five hours a week.*

This is an elementary course in Physical Education designed especially for teachers in elementary and secondary schools. There will be lectures on Physical Drill and Remediable Defects in School Children; together with assigned readings.

s 8. THE SUPERVISION OF THE PRIMARY GRADES (SECTION I). Miss KIRBY. Credit, 1 hour. N. *Five hours a week.*

The relation the supervisor's work bears to that of the superintendent's, the principal's, the teacher's; scientific attitude of mind in supervision; supervisory organizations; the making of courses of study, outlines and suggestive daily programs; selection and use of text-books and supplementary material; supervision of class instruction; conferences with individual teachers; demonstrations of class work by the supervisor, discussions; classification of pupils, grading, tests, promotions; exceptional, backward, physically unfit, and incorrigible pupils; standard tests for general intelligence, etc.; attendance, compulsory school laws; school and home study problem; principles and some details of primary school subjects; preparation, selection, certification, appointment, rating, promotion, placing and training of teachers during service; the teacher's viewpoint in supervision; teachers' meetings; method of stimulating teachers to further study; moral responsibilities and discipline of the school; health supervision; educational and vocational guidance of the pupils; school and co-operative agencies.

s 8. PROBLEMS OF SUPERVISION AND ADMINISTRATION OF THE GRAMMAR GRADES (SECTION II). Credit, 1 hour. N. Mr. PUSEY. *Five hours a week.*

This course is designed for principals, for grammar grade supervisors, and for teachers who desire to fit themselves for such work. The emphasis will be laid on methods of inspecting, directing, and evaluating classroom work in the usual grade subjects.

s 10. PROBLEMS OF THE CONSOLIDATED COUNTRY SCHOOL. Dr. KNIGHT. Credit, 1 hour. N. *Five hours a week.*

This course is designed especially for the principals of two-, three-, and four-teacher country schools. The general problems of organization, administration, and supervision will receive especial attention. The methods of conducting the course will be determined by the preparation and the number of those registered for it. Lectures, discussions, conferences, and assigned readings.

s 11. PRINCIPLES OF SECONDARY EDUCATION. Credit, 1 hr. C.
Mr. WILLIAMS. *Five hours a week.*

This course will deal with the problems of organizing and administering the work in secondary schools. Some attention will be paid to the development of the American high school, with the emphasis placed upon the part played by the high school in developing the American idea of democracy.

s 12. HIGH SCHOOL METHODS. Credit, 1 hour. C.
Mr. WILLIAMS *Five hours a week.*

A study of the general methods of teaching best suited to high school pupils and a consideration of the particular aims, methods, and outcomes of each of the various high school subjects. Text: Lectures, parallel reading.

s 13. CONSTRUCTIVE SUPERVISION Credit, 1 hour. C.
Mr. BROGDEN. *Five hours a week.*

This course will aim to give definite and specific instruction to principals, superintendents, and supervisors, in the observation and constructive criticism of classroom work. Discussions will center around such matters as "what to look for," "how to look for it," "what to do with what is found." Lectures, observations at the Demonstration School conferences.

s 14. TYPES OF TEACHING. Credit, 1 hour. N. or C.
Dr. KNIGHT. *Five hours a week.*

This course is designed especially for group leaders of the Reading Circle work in the country schools of North Carolina. It will be based upon Earhart's *Types of Teaching* which will be used in 1919-1920 as the basis of the professional work of the Teachers' Reading Circle. Lectures, text-book, discussion, assigned readings.

s 15. HISTORY OF SECONDARY EDUCATION THROUGH THE MIDDLE AGES. Credit, 1 hour. C.
Mr. WILLIAMS. *Five hours a week.*

An attempt will be made to trace through the ages what society and the State have done to help adolescents solve the problems peculiar to their stage of life. Advanced course; should be taken only by those high school teachers who have had at least five years of teaching experience and professional study.

s 17. HISTORY OF EDUCATION IN NORTH CAROLINA.

Mr. M. C. S. Noble. Credit, 1 hour. C.
Five hours a week.

The purpose and development of educational theories in North Carolina as seen in public, private, charity, and church schools. A comparative study of public education in North Carolina and other selected typical States of the American Union. Lectures, discussions, and assigned readings.

s 35. PROBLEMS IN ADMINISTRATION.

Mr. Williams. Credit, 2 hours. C. or Grad.
Two hours a week; two summers.

A course dealing with the administration, tabulation and interpretation of the standard tests and scales with particular emphasis upon their use as a means of supervising classroom work. Lectures, project work, reports. Graduate credit can be given only to those students who are college graduates.

Note.—One-half of this course will be given in 1919 and the remainder in 1920. No credit will be allowed until both parts have been completed. This course can be taken only after consultation with the instructor.

ENGLISH

s 1. GRAMMAR AND COMPOSITION. Credit, 1 hour. N.

Mr. Long and Mr. Moffatt. *Five hours a week.*

A study of the principles of grammar and composition. Text-book assignments, class discussion of the content and method of teaching grammar and composition, and illustrative themes. Text-book: Robbins and Rowe, *Grammar and Composition.*

Section I—8:00. Mr. Moffatt.
Section II—8:50. Mr. Long.

s 3. PUBLIC SPEAKING. Credit, 1 hour. N.

Mr. McKie. *Five hours a week. 8:50.*

The course will include training the elements of speaking and practice in the composition and delivery of original speeches and in the oral interpretation of literature. The emphasis in this course may be shifted to answer the needs of the class.

s 5. PRINCIPLES OF JOURNALISM. Credit, 1 hour. N.

Mr. Thornton. *Five hours a week. 8:00.*

It will be the object of this course to study journalism, mainly from the high school point of view. School publication work

will be considered. Practice in news writing and editing will be given. *The Summer School News* will afford opportunity for practical work. Some attention will be given to the use of current literature in the schools. Text-book: Dillon's *Journalism for High Schools.*

s 11. THE TEACHING OF ENGLISH IN THE HIGH SCHOOL.
Mr. LONG. Credit, 1 hour. C.
Five hours a week. 11:00.

A thorough study of some of the literature required for college entrance from the point of view of the teacher. The aim of the course is to widen the teacher's knowledge of each of the works studied and to furnish suggestions as to the most effective way of presenting them to high school students. The problem of composition teaching in the high school will receive some attention.

s 12. SHAKESPEARE. Credit, 1 hour. C. or Grad.
Mr. KOCH. *Five hours a week. 8:50.*

An intensive study of *Macbeth* and *Twelfth Night*, with special consideration of Shakespeare's contribution in tragedy and in comedy. Other representative plays will be assigned for reading and discussion. A thesis will be required in this course, if counted towards a Master's degree.

s 14. AMERICAN LITERATURE. Credit, 1 hour. C. or Grad.
Mr. ELLIS. *Five hours a week. 11:00.*

A study of American literature, chiefly as representing American social and intellectual ideals. Stress will be placed upon the chief nineteenth century writers, and several of their more important individual works will be read and studied, together with illustrative selections covering the whole period. A thesis will be required in the course if counted toward a Master's degree.

s 15. ENGLISH COMPOSITION. Credit, 1 hour. C.
Mr. MCKIE. *Five hours a week. 9:40*

This course aims at correctness and effectiveness in writing and is of the grade of English I, Freshman English, of the regular session. The *Freshman English Notebook* (including Foerster and Steadman, *Sentences and Thinking*) and Foerster and Pierson, *American Ideals*, will be the text-books.

s 16. ENGLISH LITERATURE OF THE NINETEENTH CENTURY.
Mr. THORNTON. Credit, 1 hour. C.
Five hours a week. 12:40.

The main currents in nineteenth century English thought will be outlined. Chief attention will be paid to Carlyle, Mill, Macaulay, Tennyson, and Arnold. Text-book: *The Great Tradition* (Greenlaw and Hanford).

s 20. CHAUCER. Credit, 1 hour. C. or Grad.
Mr. ELLIS, *Five hours a week. 11:50.*

Reading of the Prologue and selected *Canterbury Tales*, with some of the minor poems. Emphasis will be placed upon the reading of Chaucer as poetry, and upon an understanding of the poet as a man, a master of narrative, and a representative of his age, socially and intellectually. No knowledge of Anglo-Saxon or Middle English is required. (Open to graduates and to senior students.)

s 26. PLAY-WRITING. Credit, 1 hour. C. or Grad.
Mr. KOCH. *Five hours a week. 9:40.*

A practical course in play-making designed for teachers as well as for students interested in the technique of play-writing. The method is frankly experimental. North Carolina folk materials will be utilized, and the one-act form will be the working basis of the course. The essentials of stagecraft—scenery, lighting, settings, costumes, make-up—as applied to school performances, will be illustrated by the presentation of a group of original folk plays by the Carolina Playmakers in The Play-House of Chapel Hill.

FRENCH

s 1. ELEMENTARY COURSE. Credit, 1 hour. E. or N.
Mr. VERMONT. *Five hours a week. 8:50.*

This course is intended for those who have not previously studied French. It begins with a study of the essentials of French grammar, and the writing of simple English into French. The course will be conducted in French as far as possible, and special stress will be put upon the acquisition of a good pronunciation. The course corresponds as nearly as possible to the first French A, as announced in the University catalogue, and when successfully pursued, it will be accepted as part of the

college entrance requirements in French. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.); Monvert, *La Belle France* (Allyn and Bacon).

s 11. ADVANCED COURSE. Credit, 1 hour. C.
Mr. VERMONT. *Five hours a week. 9:40.*

This course presupposes one year's successful study of College French. It will include a review of the principles of French grammar, with practical composition, and the reading of modern French literature. Pronunciation, also, will receive especial attention. The course corresponds as nearly as possible to first French 1-2, as announced in the University catalogue, and when succcessfully pursued it will be accepted as part credit for the first term of French 1-2. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.), and other texts.

s 12. ADVANCED COURSE. Credit, 1 hour. C.
Mr. VERMONT. *Five hours a week. 11:50.*

Continuation of Course s 11. The study of the Principles of French grammar, with composition, will be continued, and also the reading of modern French literature. The course corresponds as nearly as possible to the second term of French 1-2, as announced in the University catalogue, and when successfully pursued it will be accepted as part credit for the second term of French 1-2. Text-books: Fraser and Squair, *Shorter French Course* (D. C. Heath & Co.), and others.

s 13. THE TEACHING OF FRENCH IN THE HIGH SCHOOL.
Mr. DEY. Credit, 1 hour. C.
Five hours a week. 11:50.

This course will consist of a study of the French vowels and consonant sounds, by means of the phonetic method, and selections of French prose will be written in phonetic transcription. An attempt will be made, also by frequent dictation, to train the ear to recognize French sounds. Outside reading with written tests. Text-books: Nitze and Wilkins, *A Handbook of French Phonetics* (Henry Holt & Co.), and other texts.

s 14. FRENCH CONVERSATION AND COMPOSITION.
Mr. DEY. Credit, 1 hour. C.
Five hours a week. 9:40.

The object of this course is to provide its members with the opportunity of hearing idiomatic French spoken and of acquiring facility in the use of the language. Topics of general

interest discussed; practice also in the writing of French. This course is open to those who have passed French 1-2 of the University curriculum or French s 11 and French s 12 with a grade not lower than 3.

GEOLOGY AND GEOGRAPHY

s 11. INTRODUCTORY GEOLOGY. Credit, 1½ hours. C.
Mr. Cobb. *Lectures five hours a week.*

Materials of the earth and the agencies affecting them; processes and their results as a key to the interpretation of the earth's history, with special reference to that of North Carolina. The origin, classification, conservation, and uses of the economic minerals, rocks, soils, etc., of the State and their importance to man. Field and laboratory work. Text-book: Chamberlain and Salisbury, *Introductory Geology.* Laboratory fee, $1.00.

s 12. ELEMENTARY MINERALOGY. Credit, 1½ hours. C.
Mr. Randolph. *Ten hours a week.*

Occurrence, conservation, and uses of the common economic minerals, and rocks; their properties and identification. Field and laboratory work. The equivalent of Geology 3. Laboratory fee, $5.00.

Note.—Will be given if applied for by as many as ten students.

s 14. COMMERCIAL AND INDUSTRIAL GEOGRAPHY.
Mr. Cobb. Credit, 1½ hours. C.
Lectures five hours a week.

This course covers the winter term of Commercial and Industrial Geography (Geology 22) as announced in the University catalogue. Illustrated lectures, laboratory work, and excursion trips. Laboratory fee, $2.00.

s 16. ADVANCED GEOLOGICAL FIELD WORK.
Mr. Cobb and Mr. Randolph. Credit, 1½ hours. C.
Six afternoons a week.

This course consists of the making of a detailed base map of a small area and the working out of the geology of the region.

s 17. HISTORICAL GEOLOGY. Credit, 1½ hours. C.
Mr. Randolph. *Lectures five hours a week.*

Lectures with a study of rocks and fossils. The equivalent of Geology 2. Laboratory fee, $2.00.

Note.—Will be given if applied for by as many as ten students.

s 18. THE TEACHING OF GEOGRAPHY IN THE HIGH SCHOOL.
Mr. COBB. Credit, 1 hour. C.
Five hours a week.

This course for 1919 will be devoted to methods of teaching American geography. Map-making and the use of maps, modeling in clay and the use of the sand-board in making relief maps, photographs and lantern slides, geographic influences in commerce and industry, methods of note-taking, the study of neighborhood geography, will be included in the discussion. Illustrated lectures, laboratory work and field work, text-books, reports and readings.

NOTE.—LECTURES ON GENERAL LATIN AMERICA.

A series of five illustrated lectures by Mr. Cobb is offered to the geography classes on *The Geography of Latin America.*

GERMAN

s 1. ELEMENTARY COURSE. Credit, 1 hour. E. or N.
Mr. TOY. *Five hours a week.*

This course is intended for those who have no previous acquaintance with the language and for those who are interested in the new methods of teaching beginners. There will be oral practice, and the inflections and the common laws of syntax will be learned practically. The class will make written summaries in German and translate simple German prose. Daily exercises in dictation. This course corresponds in part to one-quarter of German A as scheduled in the University catalogue. When successfully completed it will be accepted as part of the college entrance requirement in German. Text-books: Harris, *German Lessons* (Boston, D. C. Heath & Co.); Guerber, *Märchen und Erzahlungen*, I (Boston, D. C. Heath & Co.).

s 2. ELEMENTARY COURSE. Credit, 1 hour. E. or N.
Mr. TOY. *Five hours a week.*

Practical exercises in grammar and translation of German prose, with dictation. Oral methods will be used, as far as possible, in continuation of the Course s 1. Text-books: the same as in Course s 1. This course corresponds in part to one quarter of German A as scheduled in the University catalogue. When successfully completed it will be accepted as part of the college entrance requirement in German.

s 11. ADVANCED COURSE. Credit, 1 hour. C.

Mr. Brown. *Five hours a week.*

This course presupposes at least one year's successful study of German. There will be a review of important points of grammar, but attention will be directed chiefly to wide reading. Colloquial exercises, composition, and dictation will be a distinct feature of the course. Text-books: Vos, *Essentials of German*, fourth edition (New York, Henry Holt & Co.); selected texts; Chiles, *German Prose Composition* (Boston, Ginn & Co.). This course corresponds in part to one quarter of German 1 as scheduled in the University catalogue. When successfully completed it will be accepted for credit as part of German 1.

s 12. ADVANCED COURSE. Credit, 1 hour. C.

Mr. Brown. *Five hours a week.*

Continuation of the course s 11. There will be a review of important points of grammar not included in the previous course s 11; composition, dictation, and wide reading of German prose. This course corresponds in part to one quarter of German 2 as scheduled in the general catalogue. When successfully completed it will be accepted for credit as part of German 2. Text-books: Vos, *Essentials of German*, fourth edition (New York, Henry Holt & Co.); selected texts.

s 17. THE TEACHING OF GERMAN IN THE HIGH SCHOOL.

Mr. Toy. Credit, 1 hour. C.

Five times a week.

This course is offered to supplement the training of teachers of Elementary German. There will be given a thorough exposition of the laws of pronunciation and practical illustration of the methods of treating elementary grammar, along with oral exercises and translation of texts adapted to high school work. The direct and other methods will be discussed in daily conferences. The course is not open to beginners.

HEALTH AND SANITATION

s 1. HYGIENE AND SANITATION. Credit, 1 hour. N.

Dr. Mangum. *Five hours a week.*

This course will include the following: Explanation and discussion of the public health laws of North Carolina as they relate to schools and school management; infectious diseases, their recognition and prevention; general school hygiene and

sanitation; practical instruction in first aid to the injured. Lectures, recitations, and written quizzes. Texts: *Public Health Bulletins of North Carolina Board of Health.*

GENERAL LECTURES ON PUBLIC HEALTH

1. Explanation and discussion of legislation relating to the maintenance of health in the schools of North Carolina.
2. The prevention of disease and how the school may aid, etc.

HISTORY

s 16. EUROPE SINCE 1815. Credit, 1 hour. C. or Grad.

Mr. WAGSTAFF. *Five hours a week.*

This course surveys the fundamental forces that shaped the history of Europe from the fall of Napoleon up to the outbreak of the World War. Text-book: Hazen's *Europe Since 1815* (Macmillan).

s 24. HISTORY OF GREAT BRITAIN SINCE 1832. Credit, 1 hour. C.

Mr. PIERSON. *Five hours a week.*

A general course dealing with the political and social history since the adoption of the Reform Bill of 1832, the emphasis being upon institutional and economic factors, the transformation of the British Empire into a commonwealth of free nations, international relations, and the British part in the World War of 1914. Lectures and text-books.

s 26. THE TEACHING OF HISTORY IN THE HIGH SCHOOL.

Mr. PIERSON. Credit, 1 hour. C.

Five hours a week.

This course in 1919 will be devoted chiefly to the study of methods of teaching American history. Such topics will be considered as the use of maps; high school libraries and reference reading; sources and documents; methods of note-taking; the study of local history; the value of American history. The discussion of these and other related topics will be based upon illustrations taken from American history. Lectures, text-books, reports, and readings.

NOTE.—In 1920, Ancient History will be the basis of the course.

s 27. COMPARATIVE GOVERNMENT. Credit, 1 hour. C.

Mr. PIERSON. *Five hours a week.*

A study will be made in this course of the government and the institutions of democracy in Great Britain, the United

States, and France; and attention will be given to the political changes effected by the war. Lectures, text-books, and readings.

s 28. THE WORLD WAR AND ITS RESULTS.

Mr. Wagstaff. Credit, 1 hour. C. or Grad.
Five hours a week.

This course is introduced with lectures on the diplomatic background of the world war, follows its course to the Peace, and lays special emphasis upon the primary results of the great struggle. Lectures, text-books, and readings. Text: *The World War and Its Consequences* (G. P. Putnam's Sons).

HOME ECONOMICS

s 1. COOKING. Credit, 1 hour. N.

Miss Newman. *Five hours a week.*

This course is planned primarily for rural teachers. The work in cooking includes a study of the general food principles and their place in the diet; the relation of the food principles to the digestion; the correlation of cooking with other studies in the rural school curriculum; working out the noonday lunch as a practical time for giving lessons in the rural school.

s 2. SEWING. Credit, 1 hour. N.

Miss Newman. *Five hours a week.*

The work in sewing includes the study of the simple stitches and the elementary principles of sewing carried out in the projects worked out for grades five to ten, inclusive; the study of textile fibers, suitable fabrics for different articles of clothing, and the alteration of patterns; study of the social problems in the manufacture of clothing, and the working out of household and wardrobe budgets.

s 3. HOUSEKEEPER'S COURSE. Credit, ½ hour. N.

Miss Newman. *Three double periods a week.*

This course is planned for housekeepers, and the work is presented from the point of view of the housekeeper rather than from that of the teacher. The work will include three double periods a week in cooking and three double periods a week in sewing. The course will be so arranged that housekeepers of the town may take either cooking or sewing or both, as they may see fit.

LATIN

s 1. ELEMENTARY COURSE. Credit, 1 hour. N.
Mr. HENRY. *Five hours a week.*

Pronunciation, inflection, syntax of nouns and verbs; special study of the subjunctive, indirect discourse, relative and conditional sentences. Text-book: Bennett's *Latin Grammar.*

s 4. VERGIL. Credit, 1 hour. E. or N.
Mr. HENRY. *Five hours a week.*

A course designed primarily for candidates for admission to college; three or more books of the Aeneid; translation, syntax, meter. Text-book: Any standard text of the *Aeneid.*

s 11. THE TEACHING OF LATIN IN THE HIGH SCHOOL.
Mr. HOWE. Credit, 1 hour. C.
Five hours a week.

A course for teachers, based on the authors usually taught in the high school. The topics to be discussed will include: Assignment of lessons, grammar, translation, vocabulary, use of outside material in the interpretation of the text, methods of recitation, etc.; lectures, assigned readings; reports and discussions. Text-book: Any standard editions of *Cæsar*, *Cicero*, and *Vergil.*

s 15. SEMINAR COURSE. Credit, 1 hour. C. or Grad.
Mr. HOWE. *Five hours a week.*

The subject to be studied will be selected at the first meeting of the class. The selection is postponed until that time in order to meet the exact needs of the students who apply for it. Suggested topics are: Cicero's works apart from the orations; Epistolary literature; Satire; Elegy, etc. Lectures and readings.

s 16. CLASSICAL DRAMA. Credit, 1 hour. C.
Mr. HENRY. *Five hours a week.*

A brief course in the history of classical drama, with special emphasis on the Latin comedy. Selected readings.

LIBRARY SCIENCE

s 11. THE USE OF BOOKS. Credit, 1 hour. C. or Grad.
Mr. WILSON. *Five hours a week.*

A course for college students, teachers, and librarians on the use of books. Instruction is given as to the kind of informa-

tion specific reference books, dictionaries, and encyclopædias contain. Special emphasis is laid on methods of finding material for use in the preparation of themes, essays, debates, orations and of assisting others in finding material in school or public libraries for school use. Practice at the reference desk of the University library and the preparation of an extension list of readings on some subject to be assigned will be required. Lectures, assigned readings, text-book.

MATHEMATICS

s 1. ARITHMETIC. Credit, 1 hour. N.

Mr. Sheep. *Five hours a week.*

Lectures and assigned work, including the fundamental operations, fractions, percentage, interest, ratio and proportion, mensuration, etc. Text-book: Milne's *Progressive Arithmetic, Book III.*

Note.—See, also, *Education s 4, III: The Teaching of Arithmetic.*

s 2. HIGH SCHOOL ALGEBRA. Credit, 1 hour. E. or N.

Mr. Sheep. *Five hours a week.*

Lectures and assigned work, including factoring, simultaneous equations, exponents, involution and evolution, quadratic equations, the binomial theorem, etc. Text-book: Wentworth-Smith's *Academic Algebra.*

s 3. PLANE GEOMETRY. Credit, 1 hour. N.

Mr. Hobbs. *Five hours a week.*

The purpose of this course is to give teachers the opportunity to gain a wider knowledge of the field than is possible in our high school classes. It will consist in a review of Wentworth-Smith's *Plane Geometry*, dealing mainly with the exercises and constructions. This will be followed by a study of some of the famous theorems developed since the time of the Greeks, which have not yet found their way into the courses given in the schools.

s 4. SOLID GEOMETRY. Credit, 1 hour. E. or N.

Mr. Hobbs *Five hours a week.*

Lectures and recitations. Special attention given to the solution of original exercises. Text-book: Wentworth-Smith's *Plane and Solid Geometry.*

s 11. ADVANCED ALGEBRA. Credit, 1 hour. C.

Mr. HOBBS *Five hours a week.*

This course is especially designed for teachers who desire a more thorough understanding of algebraic processes than can be usually obtained from hurried college courses, in which the students represent all degrees of preparation. The purpose of those taking this course should be to get a thoroughgoing knowledge of the reasons which underlie the various steps in the development of the subject. The topics taken up will be: Irrational Numbers, Quadratic Equations, Progressions, Permutations and Combinations, Probability, Logarithms, Theory of Equations and Determinants. Text-book: Fine, *College Algebra.*

s 13. PLANE TRIGONOMETRY. Credit, 1 hour. C.

Mr. RANKIN. *Five hours a week.*

Definitions of trigonometric functions, solutions of right triangles, use of the tables of logarithms and natural functions, graphical representation of trigonometric functions, functions of sums and differences of angles, obliques, triangles, trigonometric equations. Emphasis will be put on the solution of many practical problems. Text-book: Hunn and MacInnes, *Plane and Spherical Trigonometry.*

s 15. THE TEACHING OF MATHEMATICS IN THE HIGH SCHOOL

Mr. RANKIN. Credit, 1 hour. C.

Five hours a week.

The object of this course is to give a broader view of mathematics than one gets from the study of text-books only. The course is primarily for those who teach mathematics in the high school. It will be assumed that all who enroll for credit have completed a thorough course in high school algebra and plane geometry. These subjects will be reviewed with emphasis on what are the fundamentals of each and how to present them to a class. The co-ordination of arithmetic, algebra, and geometry, "Unified Mathematics," will be studied. A brief study of graphical algebra and its application to commercial charts will be made.

MUSIC

s 1. PUBLIC SCHOOL MUSIC. Credit, 1 hour. N.

Mr. HAGEDORN. *Five hours a week.*

Sight-singing, rhythm, sense-training, observation, school music, and mechanics. This course is intended primarily for the

grade teacher in the public schools, and will be extended in any direction to suit the needs of the class. Newton's *Primary Melodies* (Ginn & Co.) will be used.

s 2. PUBLIC SCHOOL MUSIC. Credit, 1 hour. N.
Mr. HAGEDORN. *Five hours a week.*

Sight-singing, chromatics, dictation, rhythms, two- and three-part singing, suggestions for chorus conducting, the selection of material, etc.

s 4. NORMAL COURSE IN PIANO TEACHING. Credit, 1 hour. N.
Mrs. FERRELL. *Five hours a week.*

The Normal Course in Piano Teaching will consist of a series of daily lectures dealing with the following subjects: Class work and its importance, organization of classes; the presentation of the staff to beginners, notation, rhythm, ear-training, hand-training. The use of stories in teaching musical history and biography. Keyboard harmony, teaching of scales, major and minor, diminished and augmented triads, dominant seventh and diminished seventh chords, writing melodies, transpositions. Selection of material for the early grades. Technique plays an important part in the training of beginners, and this subject receives especial attention. Muscle exercises, table drills, and early piano technic will be demonstrated during this course of lectures.

s 5. PIANO LESSONS.
Mrs. FERRELL.

Piano lessons of an hour (two in a class) or private lessons of a half-hour will be given for $10 for the term of six weeks, or twelve lessons. This work deals especially with technical problems and a practical review of the teaching material used. These lessons are designed especially for the teachers taking the Normal Course in Piano, s 4. Those desiring to take this course will see Mrs. Ferrell in person before registering for it at the office.

PHYSICS

s 11. ADVANCED COURSE. Credit, 1½ hours. C.
Mr. PATTERSON. *Ten hours a week.*

Mechanics of solids, liquids and gases; sound. Five lectures and five laboratory periods a week. This course is the equivalent of one term of Physics 1-2 as scheduled in the general catalogue. Text-book: Kimball, *College Physics.*

s 12. ADVANCED COURSE. Credit, 1½ hours. C.

Mr. PATTERSON. *Ten hours a week.*

Heat, light, electricity and magnetism. A continuation of Course s 11. Five lectures and five laboratory periods a week. This course is the equivalent of the second term of Physics 1-2 as scheduled in the general catalogue.

NOTE.—A fee of $2.00 will be charged in each course if laboratory work is taken.

s 14. THE TEACHING OF GENERAL SCIENCE IN THE HIGH SCHOOL. Credit, 1 hour. C.

Mr. DAGGETT. *Five hours a week.*

A study of the aims, subject matter and methods of presentation of a first-year course in science suited to the needs of North Carolina high schools. The work will be based on Caldwell and Eikenberry's *General Science* as a text. Students taking this course will be expected to do a considerable amount of collateral reading and submit reports on assigned projects. Inspection trips will be made as time permits.

RED CROSS COURSES IN DIETETICS AND HOME NURSING

s 1. RED CROSS COURSE IN DIETETICS.

Miss OSBORNE.

This course is planned by the American Red Cross, and it is designed to meet the needs of home-makers, teachers, and all others interested in the proper cooking of food. Lectures, assigned readings, laboratory exercises. Daily for a period of three weeks.

s 2. RED CROSS COURSE IN HOME NURSING.

Miss HAZELHURST.

This course is planned by the American Red Cross, and it is designed to meet the needs of home-makers, teachers, and others interested in the proper care of the sick. Lectures, assigned readings, and demonstrations. Daily for a period of three weeks.

RURAL ECONOMICS AND SOCIOLOGY

s 11. RURAL ECONOMICS. Credit, 1 hour. C. or Grad.

Mr. RUBINOW. *Five hours a week.*

A series of studies in Wealth and Welfare in North Carolina. I. The Sources of Our Primary Wealth, (1) Agriculture, (2)

Manufacture, (3) Forests and Woodlots, (4) Mines and Quarries, and Fisheries. II. Our Accumulated Wealth and Its Forms, (1) Actual Wealth and Taxables, total and per capita, (2) Wealth in Farm Properties, (3) Industrial Capital, (4) Banking Capital, (5) Bank Account Savings. III. Factors Involved in the Retention of Farm Wealth, (1) Well-Balanced Farm System, (2) Market Problems, (3) Credit Facilities. IV. The Civic Uses of Wealth, (1) Our State Revenues and the Cost of State Government, (2) The General Property Tax, (3) Where the Tax Burden Lies, (4) What the State Does with the Taxpayer's Dollar, (5) Aids to Agriculture, (6) Our Support of Public Education, (7) Public Health Work in North Carolina, (8) Public Welfare Work in North Carolina. V. After-the-War Problems in our Farm Regions. Texts: Bulletins University Extension Bureau, Nos. 17, 23, 25, and 30. Carver's *Principles of Rural Economics.*

s 12. LABORATORY COURSE IN RURAL ECONOMICS AND SOCIOLOGY. Credit, 1 hour. C. or Grad.

Mr. Branson. *Five hours a week.*

This course is open to students taking courses s 11 and s 13. The studies concern matters of State-wide importance. They cover rural, urban, and industrial problems, economic and social. The subjects and methods are indicated by the 298 studies already made by the Summer School and regular term students of the University during the last three years, and given to the public in part in various issues of the *University News Letter*, and the North Carolina Club Year-Books, 1915-'16, 1916-'17, and 1917-'18. Students from other states will be assigned to similar studies of their home State. The consultation hour is 4:30 o'clock daily; but the work can be done in the laboratory headquarters at any time suiting the convenience of the students enrolled.

s 13. RURAL SOCIAL PROBLEMS. Credit, 1 hour. C. or Grad.

Mr. Branson. *Five hours a week.*

This course will cover: I. The Rural Social Problem—What it is and is not; Causes Producing the Country-Life Problem; Country-Life Conditions and Consequences at Present. II. Socialization—What it Means; Ideals, Ends and Aims; Obstacles in the Countryside; The County as a Civic and Social Agency; Needed Organized Agencies in County Socialization. III. Rural Social Institutions—The Country Home in Contrast with the

City Home; The Country Church; the Country School; the Country Newspaper; the Country Doctor. IV. Country-Life Agencies—Communication and Transportation Facilities; Economic Agencies with Culture Aims; Economic Agencies with Business Aims; Social Agencies for the Common Good. V. Developments in other States; Progressive Communities in North Carolina. VI. After-the-War Problems—Home Ownership, Health, Illiteracy. Texts: Galpin, *Rural Life;* Fiske, *Challenge of the Country.*

PUBLIC SCHOOL LAW

s 1. NORTH CAROLINA SCHOOL LAW. Credit, ½ hour. N.

Mr. MARROW. *Three hours a week.*

This course is designed to give teachers an elementary knowledge of the North Carolina School Law, and thus to enable them to meet the requirements of the State Board of Examiners and Institute Conductors. Those completing the course will be given credit in this subject toward any class of State certificate for which it is required. Lectures and assigned readings.

WRITING

s 1. FREE-ARM MOVEMENT. Credit, 1 hour. N.

Miss JONES. *Five hours a week.*

Practical instruction in free-arm movement writing; drills, lectures, type lessons for primary, intermediate, and grammar grades. The course offered is planned to make better teachers of writing; hence, there will be two definite aims in view: (1) to improve the handwriting of those taking the course, and (2) to study the best methods to be used in teaching children to write. The course should be helpful to teachers, no matter what system they teach, as the instruction will be along broad lines, and principles rather than systems will be emphasized. At least thirty minutes practice each day outside of class will be required.

SECTION I— 9:40.
SECTION II—11:50.

s 2. PALMER METHOD WRITING. Credit, 1 hour. N.

Miss POORE. *Five hours a week.*

Drill and instruction in muscular movement and the development and perfection of muscular movement writing. Methods of teaching muscular movement writing as they relate to teacher

and to pupils of all grades in the elementary school. The eight essential steps and their stages freely discussed and demonstrated.

Section I— 8:00.
Section II— 8:50.
Section III—12:40.

ZOOLOGY

s 11. COMPARATIVE ANATOMY. Credit, 3 hours. C.

Mr. George. *Twenty-four hours a week.*

This course corresponds to Zoology 2 of the regular session. Dissection of types, chiefly vertebrates with some invertebrates. Laboratory work with occasional lectures. Six hours credit for the quarter. Laboratory fee, $5.00.

PART FOUR

COURSES OF INSTRUCTION

NOTES ON THE METHOD OF NUMBERING COURSES

The courses described in this section of the catalogue are those offered in the College of Liberal Arts, School of Applied Science, School of Education, School of Commerce and the Graduate School. For courses offered in the School of Law see page 130. For those in the School of Medicine see page 139. For those in the School of Pharmacy see page 151.

Courses with a single number are completed in one quarter. Classes meet either five or six times a week, except in the case of *half courses,* which meet only three times a week.

Courses with a double number are completed in two quarters, and in general credit will not be given until both quarters have been completed. Certain of these courses meet only three times a week and count as one course; for example, Mathematics 13-14. A course which meets five times a week is designated as a *double course;* for example, English 3-4.

Courses with three numbers require three quarters to complete. Those meeting five times a week are designated as a *triple course;* for example, Botany 5-6-7. Those meeting only three times a week are designated as *one and a half courses;* for example, English 21-22-23.

DEPARTMENT OF BOTANY

WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany.*
HENRY ROLAND TOTTEN, A.M., *Instructor in Botany.*
JOHN NATHANIEL COUCH, *Assistant in Botany.*
ETTA PIERSON, *Assistant in Botany.*
ALMA HOLLAND, *Assistant in Botany.*

(For description of Biological Laboratories, see page 41.)

Courses for Undergraduates

1. General Botany: an introduction to the structure and classification of plants. Lectures with laboratory work. Freshman, Sophomore, Junior and Senior elective. *Fall or Spring Quarter.* Professor COKER and Mr. TOTTEN.

Laboratory fee, $3.00.

2. Structure and classification of Seed Plants with special attention to agricultural problems. Sophomore, Junior and Senior elective. Prerequisite, Botany 1. *Spring Quarter.* Professor COKER, and Mr. TOTTEN.

Laboratory fee, $3.00.

3-4-5. Special Morphology of the Fungi, with attention to plant diseases, the culture of lower fungi, and the identification of mushrooms. Lectures with laboratory and field work. Junior and Senior elective. Prerequisite, Botany 1. *Triple Course. Fall, Winter and Spring Quarters.* Professor COKER and Mr. TOTTEN.

Laboratory fee, $3.00 a quarter.

(For course 6, see School of Pharmacy.)

Courses for Graduates

7-8-9. Plant Morphology: advanced work in the embryology and anatomy of plants. The student is required to collect and prepare material for the microscopic study of special problems. Theses. *Triple Course. Fall, Winter and Spring Quarters.* Professor COKER.

Laboratory fee, $3.00 a quarter.

DEPARTMENT OF CHEMISTRY

Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemistry.*
James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
James Talmage Dobbins, Ph.D., *Associate Professor of Chemistry.*
Ira Welborn Smithey, B.S., *Instructor in Chemistry.*
Isaac Vilas Giles, B.S., *Instructor in Chemistry.*
Fletcher Humphries Spry, *Assistant in Chemistry.*
Woodford White, *Assistant in Chemistry.*
Joseph Irven Holland, *Assistant in Chemistry.*
Charles Clarence Carter, *Assistant in Chemistry.*
Houston Spencer Everett, *Assistant in Chemistry.*
Frederick Phillips Brooks, *Assistant in Chemistry.*
John Worth Guard, *Assistant in Chemistry.*
Barnette Naiman, *Assistant in Chemistry.*
Louis Mann Nelson, *Assistant in Chemistry.*
Sihon Cicero Ogburn, Jr., *Assistant in Chemistry.*
Robert Odus Deitz, Jr., *Assistant in Chemistry.*
Ernest Otto Moehlmann, *Assistant in Chemistry.*
John Alpheus Bender, *Assistant in Chemistry.*
Roy Hobart Souther, *Assistant in Chemistry.*
Thomas Pugh Dawson, *Assistant in Chemistry.*

(For description of Chemical Laboratory, see page 41.)

Courses for Undergraduates

1-2. General Descriptive Chemistry: lectures with laboratory work. *Fall and Winter or Winter and Spring Quarters.* Professors Venable and Bell, Messrs. Smithey and Giles and Assistants.

Laboratory fee, $3.00 a quarter.

8. Chemical Equations: a detailed study of the reactions of the elements and their compounds. Lectures and text-books. Prerequisite, Chemistry 41-42. *Spring Quarter.* Professor Dobbins.

11. Industrial Chemistry: The methods and economics of the chemical industries; acids, alkalies, fertilizers, etc. Lectures and text-books. Prerequisite, Chemistry 1-2. *Fall Quarter.* Professor Venable.

12. Industrial Chemistry: The methods and economics of the chemical industries; metals and textiles. Lectures and text-books. Prerequisite, Chemistry 1-2. *Winter Quarter.* Professor VENABLE.

13. Chemistry of Foods: Digestion processes; and the composition, preservation, adulteration and industrial production of foods. Prerequisite, Chemistry 1-2. *Spring Quarter.* Professor VENABLE.

18. History of Chemistry: with discussion of the development of chemical theories. Prerequisites, Chemistry 61-62 and 81-82. *Spring Quarter.* Professor VENABLE.

21-22-23. Research for Seniors. Prerequisite, Chemistry 45-46-47, 61-62, 81-82. Professors VENABLE, WHEELER, and BELL.
Laboratory fee, $7.50.

31. Qualitative Analysis. Laboratory work and lectures. Prerequisite, Chemistry 1-2. *Fall or Spring Quarter.* Professor DOBBINS and Messrs. SPRY, HOLLAND and DEITZ.
Laboratory fee, $10.00.

41. Elementary Quantitative Analysis. Gravimetric Analysis Laboratory work, lectures and stoichiometric exercises. Prerequisite, Chemistry 31. *Fall Quarter.* Professor BELL and Mr. WHITE.
Laboratory fee, $7.50.

42. Elementary Quantitative Analysis. Volumetric Analysis Laboratory work, lectures and stoichiometric exercises. Prerequisite, Chemistry 41. *Winter Quarter.* Professor BELL and Mr. WHITE.
Laboratory fee, $7.50.

44. Elementary Quantitative Analysis: a brief course in gravimetric methods, followed by a more extended course in volumetric methods. Prerequisite, Chemistry 31. Open only to B.S. IV and Pre-Medical students. *Winter Quarter.* Professor DOBBINS and Messrs. SPRY, HOLLAND and DEITZ.
Laboratory fee. $5.00.

45. Technical Quantitative Analysis: Fuels and Gas Analysis. Prerequisite, Chemistry 41-42. *Fall Quarter.* Professor DOBBINS.
Laboratory fee. $5.00.

46. Technical Quantitative Analysis: Water, Fertilizer, Iron and Steel, Cotton Products, etc. Prerequisite, Chemistry 41-42. *Winter Quarter.* Professor Dobbins.

Laboratory fee. $5.00.

47. Technical Analysis: Spectroscopic and Microchemical Methods. Prerequisite, Chemistry 41-42. *Spring Quarter.* Professor Dobbins.

Laboratory fee. $5.00.

61. Organic Chemistry. The Aliphatic Series. Prerequisite, Chemistry 31. *Spring Quarter.* Professor Wheeler.

Laboratory fee. $5.00.

62. Organic Chemistry. The Carbocyclic Series. Prerequisite, Chemistry 61. *Winter Quarter.* Professor Wheeler.

Laboratory fee. $5.00.

63. Identification of Pure Organic Compounds. Prerequisite, Chemistry 62. *Spring Quarter.* Professor Wheeler.

Laboratory fee. $5.00.

64. Advanced Organic Chemistry. Reports on assigned topics with conferences. Library work. Prerequisite, Chemistry 62. *Winter Quarter.* Professor Wheeler.

70. Organic Chemistry. Aliphatic Series. Requirement for Admission to Medical School. Open only to B.S. IV and Premedical Students. *Spring Quarter.* Professor Wheeler and Mr. Souther.

Laboratory fee. $5.00.

81. Physical Chemistry. Study of the properties of solids, liquids and gases, and of their relation to chemical constitution. Prerequisite, Chemistry 41-42. *Winter Quarter.* Professor Bell.

Laboratory fee, $2.50.

82. Physical Chemistry. The theory of solutions. Prerequisite, Chemistry 81. *Spring Quarter.* Professor Bell.

Laboratory fee, $2.50.

83. Physical Chemistry. The methods of physical chemistry as applied to industrial processes. Lectures and text-books. Prerequisite, Chemistry 81-82. *Fall Quarter.* Professor Bell.

84. Physical Chemistry. Electrochemistry. Lectures and textbooks. Prerequisite, Chemistry 81-82. *Spring Quarter.* Professor BELL.

Courses for Graduates

14-15-16. Advanced Technical Chemistry. Seminar Course: readings and discussions of recent advances in Technical Chemistry. This course extends throughout the year. Professor VENABLE.

24-25-26. Advanced Inorganic Chemistry. Seminar Course: readings and discussions of recent advances in inorganic chemistry. This course extends throughout the year. Professor VENABLE.

27-28-29. Research in Inorganic, Analytical and Industrial Chemistry. This course (or 77-78-79 or 97-98-99) is intended for applicants for advanced degrees. Laboratory work with frequent conference with the professor and reference to the literature relating to the subject of research. The subject of research must be assigned or approved by the professor. This course extends throughout the year. Professor VENABLE.

Laboratory fee, $10.00 a quarter.

74-75-76. Advanced Organic Chemistry. Seminar course: readings and discussions of special chapters in organic chemistry. This course extends throughout the year. Professor WHEELER.

77-78-79. Research in Organic Chemistry. The statements made in regard to Course 27-28-29 apply also to this course. Professor WHEELER.

Laboratory fee. $10.00 a quarter.

94-95-96. Advanced Physical Chemistry. Seminar course: readings and discussions of recent advances in physical chemistry. This course extends throughout the year. Professor BELL.

97-98-99. Research in Physical Chemistry. The statements made in regard to Course 27-28-29 apply also to this course. Professor BELL.

Laboratory fee. $10.00 a quarter.

For Courses 71, 72, 73 see School of Medicine.

The Journal Club meets fortnightly. The current journals, American, English, German and French both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in advanced courses.

DEPARTMENT OF CIVIL ENGINEERING

———— ————, *Professor of Civil Engineering.*
Thomas Felix Hickerson, A.M., S.B., *Associate Professor of Civil Engineering.*
Thorndike Saville, C.E., *Associate Professor of Hydraulic and Sanitary Engineering.*
Richard Theodore Lenoir, Jr., *Assistant in Civil Engineering.*

(For description of Civil Engineering Laboratory see page 44.)

1. Surveying and Plotting. Lectures, problems in the drawing room, field work. Prerequisite, Mathematics 2. *Fall or Spring Quarter.* Professor Hickerson.

3. Mechanics and Mechanisms. *Winter Quarter.* Professor Hickerson.

5. Plane Table Surveying and Mapping. Preparation and interpretation of topographical maps. Lectures and field work. *Half Course. Spring Quarter.* Professor Saville.

9-10. Railroad Surveying and Railroad Engineering. Prerequisite, C.E. 1. *Double Course. Fall and Winter Quarters.* Professor ————————.

11-12. Highway Engineering. Location, construction, and maintenance of roads. *Double Course. Fall and Spring Quarters.* Professor Hickerson.

16. Materials of Construction. Lectures with laboratory work on tests of materials. *Winter Quarter.* Professor Saville.

17. Mechanics of Materials. Lectures with laboratory work. Strength of materials, moments and shears, stresses in beams and columns, deflection of beams, torsion, etc. *Spring Quarter.* Professor Saville.

18. Engineering Geology. Geological structures as influencing engineering construction, foundations, excavation, building materials, borings, tunnelling, etc. Prerequisite, Geology 1-2. *Half Course. Fall Quarter.* Professor Saville.

19. Hydraulics. Flow of water in pipes, canals and rivers. Lectures, laboratory and field work. Prerequisite, Mathematics 11-12. *Fall Quarter.* Professor SAVILLE.

20. Water Power and Drainage Engineering. Prerequisite, C.E. 19. *Winter Quarter.* Professor SAVILLE.

21. Sanitary Engineering. Water supply and purification; sewerage disposal. Design, construction and operation as applied to municipalities and rural communities. Lectures, classroom work, and inspection trips. Prerequisite, C.E. 19. *Spring Quarter.* Professor SAVILLE.

23-24. Structures. A thorough study of outer and inner forces as applied to structures of various types. Prerequisite, C.E. 17. *Double Course. Fall and Winter Quarters.* Professor HICKERSON.

25. Reinforced Concrete Structures. Prerequisite, C.E. 23-24. *Spring Quarter.* Professor HICKERSON.

26-27. Bridge Design. Computations and drawings for the design of typical railroad and highway bridges of wood, steel and concrete: to be taken in connection with C.E. 24-25. *Double Course. Winter and Spring Quarters.* Professor HICKERSON.

28. Advanced Hydraulic and Sanitary Engineering. Study of the design, construction, and operation of water supplies and purification plants, and of sewerage systems and sewage treatment. Drafting room work. Professor SAVILLE.

29. Research in Hydraulic and Sanitary Engineering. The study and investigation of special problems relating to hydraulic, water power, and sanitary engineering, under the direct supervision of the instructor. Open only to specially qualified students. Field or laboratory work. Professor SAVILLE.

DEPARTMENT OF COMMERCE

DUDLEY DEWITT CARROLL, M. A., *Acting Dean.*

ACCOUNTING

1-2-3. Principles of Accounting: Lectures with laboratory work. Study of the theory of debit and credit; single proprietor, partnership and corporation accounts; the interest problem; depreciation; principles for the valuation of assets; construction and

analysis of accounting statements, and a general survey of such fields of accounting as cost accounting, municipal accounting, railway accounting and auditing. Laboratory exercises in accounting problems and technique. Prerequisite or Corequisite, Economics 1-2. *One and a Half Courses.* Professor Cowin.

Laboratory fee, $1.00 a quarter.

4-5. Cost Accounting: Lectures with laboratory work. Methods for collection of data relative to prime costs and a careful analysis of various methods of burden distribution. Application of principles will be made in the laboratory by means of budgets for cost accounting in different classes of enterprise. Prerequisite, Accounting 1-2-3. Professor Cowin.

6. Auditing: Lectures and problems. Kinds of audits, systems of accounts, method of conducing audits and problems in auditing. Prerequisite, Accounting 4-5. *Half Course.* Professor Cowin.

BUSINESS ADMINISTRATION

1. Business Organization: The types and methods of business organization with emphasis on the corporation, its nature, development and operation. The external relations of a business organization and the internal coördination of the factors in production with a view to the establishment of effective control and definite responsibility for results. Professor ————————.

2. Corporation Finance: Methods of financing business enterprise, the principles governing the issuance and proportion of the various classes of securities issued by a corporation; the conditions which lead to the issuance of particular forms of securities, the organization of subsidiaries, methods of financing mergers, combinations and consolidations; amortization of debts; reorganizations, intercorporate relations. The preparation of securities with relation to the market. The interest of the State in capitalization. Professor ————————.

3. Industrial Management: This course covers the problems involved in the construction, equipment, and internal administration of an industrial enterprise. The location of plant; adaptation of building to processes; routing of work; types of specialization and methods of coördinating workers and departments; the delegation of authority and relation of responsibility to authority;

the development and maintenance of standards; methods of purchasing, storing and checking up materials; the determination and recording of costs; the handling of labor. Professor————.

4. Employment Problems: A critical study of the methods and systems of hiring and handling employees in the various lines of industry. The supply, selection, training, promotion, transfer and discharge of employees; the computation and significance of labor turnover; housing, educational, and recreational facilities; the functions of an employment department with reference to efficiency and the maintainance of good will between employees and employers. Professor ————————.

5. Investments: A study of the various forms of investments with reference to their suitability for the different types of investors; the money market, its nature and the financial factors which influence the price movements of securities; elements of sound investment and methods of computing net earnings, amortization, rights, and convertibles. The aim will be to train the student so he will be able to act efficiently in a financial capacity either as borrower or lender, as investor or trustee, or as fiscal agent of a corporation. *Half Course.* Professor ————————.

MARKETING AND SALESMANSHIP

1. Markets and Marketing: The course deals with the organization, methods, principles and policies of the various types of markets. The leading industries are considered with reference to the nature of the product and the processes in production which influence marketing; the nature of the markets, and the mechanism and methods of marketing. Such problems as standardization, brand development, and price policies are also considered. Professor ————————.

2. Foreign Trade: A study of the various trade channels and the organization and methods of foreign trade. The following topics are considered: The selection of markets, the determination of selling methods and their execution, the selection of price policies, relations with commission houses and agencies, methods of packing, shipping, insuring, and financing and holding trade. Particular attention will be given to South American trade relations. Professor ————————.

3. Salesmanship: This course will include a careful analysis of the psychology of selling; the qualifications of a good salesman, and their development; the relative value of suggestion, persuasion and argument in securing decision, the scientific analysis of a sale—the preapproach, the approach, the demonstration and consummation. Typical problems in selling at retail and wholesale and in marketing various types of specialties are presented. *Half Course.* Professor ————————.

4. Sales Management: This course follows the course on Salesmanship but goes beyond and considers the organization and operation of a sales department. Some of the subjects studied are: the functions of a sales manager; analysis of the goods, the market and the prospective customers; the planning and management of selling campaigns; the relation of selling and advertising campaigns; sales equipment, records, tests, and relative costs; selecting, training, organizing, supervising and compensating salesmen. *Half Course.* Professor ————————.

5. Advertising: The course consists of a study of the psychological basis of advertising, the types of advertising, and their adaptation to the different lines of business, the relative value of the various advertising media, the mechanism of an advertisement and methods of testing effectiveness. Attention is also given to the work of planning and executing an advertising campaign and checking up the results. Practical problems are a part of the course. *Full Course.* Professor ————————.

6. Credits and Collections: A study of the position of credit in modern industry and its relation to the extension of trade is combined with an analysis of the elements which enter into the determination of credit risks. Consideration is also given to the methods by which credit is extended, the standardization of the forms of credit and the means by which collections may be effected. Some attention is given to the work of collection departments and agencies, and adjustment methods. *Half Course.* Professor ————————.

ALLIED COURSES

Commercial Law: The aim of the course is to give the student an understanding of the main principles of law which govern in the daily conduct of business. The topics discussed are: Contracts, agency, negotiable instruments, sales, bailments, corpora-

tions, partnerships and bankruptcy. *One and a half Course. Fall, Winter and Spring Quarters.* Professors McGEHEE, WINSTON, and McINTOSH of the Law School.

Geology 5-6. Industrial and Commercial Geography. Lectures, laboratory work and reports. Required of Freshmen in the School of Commerce. *Double Course. Fall and Winter Quarters.* Professors COBB and PROUTY and Messrs. STUCKY and BABB.

Laboratory fee, $2.00 a quarter.

Psychology 35. Commercial Psychology. A survey of psychological aspects of industry and business, and of applications being made from the science of psychology to the latter. To include such topics as class consciousness, vocational guidance, personal management, scientific management, job analysis, advertising and salesmanship, industrial hygiene. The attitude throughout to be scientific and critical. Special needs of students of School of Commerce and Finance to be kept in mind. Readings and discussions. Junior and Senior elective. Prerequisites, Psychology 1 required, and Psychology 30 (Social) advised. *Spring Quarter.* Professor DASHIELL.

Government 3. Government and Business. A brief course dealing with the relations of modern governments to agriculture, industry, and commerce. After tracing the historical development of these relations for the past century, the remainder of the course will be devoted to an investigation of the purposes and principles underlying present-day conditions. Open only to students in the School of Commerce and those receiving a permit from the instructor. *Half Course. Spring Quarter.* Professor HAMILTON.

COMPARATIVE LITERATURE

Courses in comparative Literature are administered by a special committee composed of Professors Greenlaw, Howe, and Toy.

1. The History and Development of the Drama. *Half Course. Fall Quarter.*

3. Types of Literature. *Half Course. Winter Quarter.*

DEPARTMENT OF ECONOMICS AND FINANCE

Charles Lee Raper, Ph.D., LL.D., *Professor of Economics and Finance.*

Dudley DeWitt Carroll, M.A., *Professor of Economics.*

Economics 1-2. General Economics. This course is planned to give a general understanding of the fundamental principles underlying our industrial life. An analysis is made of consumption, production, and distribution; of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, transportation, labor problems, and socialism. Sophomore and Junior elective. *Double Course. Fall and Winter or Winter and Spring Quarters.* Professor Carroll.

Economics 3-4. Money and Banking. A general study of the principles, functions, and forms of money, credit, and banking; a special study of the current money, credit, and banking problems. Prerequisite, Economics 1-2. Junior and Senior elective. *Double Course. Fall and Winter Quarters.* Professor Raper.

Economics 6. Insurance. A general study of the principles and methods of property, social (for industrial wage earners), and life insurance; a special study of life insurance. Prerequisite, Economics 1-2. Junior and Senior elective. *Spring Quarter.* Professor Raper.

Economics 9. Transportation. A general study, from the historical and critical points of view, of railway transportation in such representative countries as Great Britain, France, Italy, Germany, and the United States; a special study of passenger and freight traffic and rates; a special study of the states' relation to railways. Prerequisite, Economics 1-2. Junior and Senior elective. *Fall Quarter.* Professor Raper.

Economics 10. Labor Problems. A study of labor as a factor in the industrial process; of the wage system and employment problems; of immigration and poverty; of labor organizations, strikes, lockouts, arbitration, factory legislation, and industrial education. Prerequisite, Economics 1-2. Junior and Senior elective. *Half Course. Spring Quarter.* Professor Carroll.

Economics 13-14. Public Finance. A general study of the principles which are involved in the revenues and expenditures of

the State, and in the relation of the State to the industries of its citizens; a special study of taxation—local, State, and National. Prerequisite, Economics 1-2. Junior and Senior elective. *Double Course. Winter and Spring Quarters.* Professor RAPER.

Economics 15. Industrial History. A survey of the steps by which modern industry has evolved from crude beginnings into the complicated capitalistic economy of to-day. Special emphasis on the development of the wage system, the Industrial Revolution, the expansion of markets, the ebb and flow of industrial activity, and relation of industrial development to political policy, as they have manifested themselves in England and the United States. Sophomore and Junior elective. *Half Course. Spring Quarter.* Professor CARROLL.

Economics 16. Theories of Economic Reform. An analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Labor Copartnership, and Industrial Democracy. Prerequisite, Economics 1-2. Senior elective. *Half Course. Fall Quarter.* Professor CARROLL.

Courses for Graduates

Courses 3-4, 6, 9, 10, 13-14, and 16.

For courses in Accounting, Business Organization, Finance and Management, Commerce and Marketing, see Department of Commerce.

DEPARTMENT OF EDUCATION

MARCUS CICERO STEPHENS NOBLE, *Dean of the School of Education.*

Principles of Education

1. Public Education as a National Asset. A discussion of the rise and development of public schools as a necessary institution of our democratic society showing how the public school has modified its form, content and method of procedure in line with our changing political, industrial, religious and home conditions. Lectures and readings. Required of Freshmen in the School of Education. *Spring Quarter.* Professor ————————.

4. Theory and Practice of Education. A study of the theory and practice of modern education from the viewpoint of both the teacher and the citizen; the selection of the material of instruc-

tion; the development and arrangement of the curriculum for the grammar school and high school. Lectures, text-books, and assigned readings. Junior and Senior elective; open to academic students. *Fall Quarter.* Professor Noble.

30. Rural Education. This course is intended for those students who wish an introduction to the general field of rural education. Some of the topics to be treated are: Present conditions in rural education in the United States, with especial emphasis on conditions in the South; recent development in and the present status of rural educational organization and administration; the increasing demand for professional direction and supervision; the rural school curriculum; agencies for training teachers for the rural school; rural educational extension work; the wider community use of the rural school. Text-book, lectures, readings and reports. Junior and Senior elective. *Fall Quarter. Half Course.* Professor Knight.

31. Rural School Organization and Administration. This course is planned to meet the needs of students preparing to become rural school teachers, principals, supervisors, and superintendents. It will give consideration to the organization, administration, and supervision of rural school education in the United States, with especial emphasis on the present condition in the South. The county as the unit of administration and support, federal aid and a national program for rural educational work, the application of the principles, agencies, and methods of supervision to the rural school will be studied. Text-book, lectures, special investigations and reports. Juniors, Seniors and Graduates; open also to academic students. *Fall or Winter Quarter.* Professor Knight.

32. The Rural High School. This course will furnish a study of some of the outstanding questions in the organization, administration, and supervision of the rural high school in the South. Types of rural high schools, the function of local and of State control, the adaptation of the course of study to the rural high school, federal aid and the influence of the Smith-Hughes Act on rural high school education in the South, and teacher-training courses in the high schools, are some of the subjects that will be considered. Lectures, readings, reports. Juniors, Seniors and Graduates. *Winter or Spring Quarter.* Professor Knight.

40. Psychology of Learning. To include such particular topics as: effects of practice and training on original capacities; methods of learning; transfer; effects of interests and incentives; individual differences in learning, etc. Texts, lectures and demonstrations. Junior and Senior elective. Prerequisite, Psychology 1, recommended but not required. *Half Course. Fall Quarter.* Professor DASHIELL.

41. Psychology of School Subjects. Analyses of processes involved in the various studies; relative efficiency of different methods of teaching them; practice in use of school tests, etc. Texts, lectures and observations. Junior and Senior elective. Prerequisite, Psychology 1, recommended but not required. *Half Course. Winter Quarter.* Professor DASHIELL.

42. Experimental Educational Psychology. An introduction to the methods of experimental pedagogy. A few central problems of education will be isolated for careful scientific treatment. Laboratory work. Junior and Senior elective. Prerequisite, Psychology 1 or Education 40, recommended but not required. *Half Course. Spring Quarter.* Professor DASHIELL.

Laboratory fee, $2.00.

NOTE.—The attention of students is called to Psychology 1 and Psychology 20, in the Department of Psychology.

51. Principles of Secondary Education. A study of the American high school, its evolution, organization, administration, function, and problems. Special emphasis will be laid on the State high school in North Carolina. This course is designed especially to meet the needs of those students who are looking toward principalships in small high schools. Text-books, lectures, assigned readings. Junior and Senior elective. Required of Juniors in the School of Education. *Fall or Winter Quarter.* Professor WILLIAMS.

Students who intend to make application for the High School Principal's certificate are required to complete satisfactorily Education 51, 52, and at last one other three-hour course in Education in order to be exempt from the professional examination.

61. Principles of Public School Administration. This course will deal with the general principles underlying public school administration in nation, State, county, and local district. Studies will be made of the various surveys of city, county and State

systems of public schools. It also will consider in detail problems of high school administration. Prerequisite Education 51, or an equivalent. Open to academic students. *Winter Quarter.* Professor Williams.

63. Problems of Public School Administration. A study in detail of some of the more important and pressing problems of school administration, *e. g.,* graduation and promotion, pupil costs, supervision of classroom instruction, etc. Graduate course open to academic students. The class will meet once a week throughout the year. Professor Williams.

Methods of Education

2. General Methods in Elementary Education. A course for teachers in elementary and grammar grades and for principals and superintendents. A careful study of the principles underlying the successful teaching of elementary branches in the best public and private schools; the preparation of written model lessons for the grades; occasional observation of teaching in the village school. Required of Sophomores in the School of Education and open to Juniors and Seniors who purpose teaching. *Fall or Winter Quarter.* Professor Noble.

3. General Methods in Elementary Education. A continuation of Education 2 above. Students who register for "2" are expected to take this course, although this is not a requirement except for Sophomores in the School of Education. *Winter or Spring Quarter.* Professor Noble.

5. Observation of Teaching. A course devoted to the observation of classroom instruction as carried on in a small and a large school system with conferences, discussions and reports on the work observed. The classes visited will be those in both the elementary school and high school grades. Senior elective. Prerequisite, Education 52. *Fall Quarter.* Professor Williams.

6. The Rural School Curriculum. This course will give a brief study of the accepted principles of curriculum-making and of their applicability to the rural school. Attention will be given to the basis of selection and organization of the course of study for the rural school: text-books; the relative claims of the traditional subjects and of the modern and special subjects; the administration of the course of study in the small and in the consoli-

dated school; daily programs and schedules. Lectures, readings, special studies and reports. Juniors, Seniors and Graduates. *Spring Quarter. Half Course.* Professor KNIGHT.

52. General Methods in Secondary Education. The course deals with a general survey of the nature of the secondary school pupil and of the nature of the subject matter taught in secondary schools with a discussion of the laws underlying the presentation of the subject matter in such a way as to aid in the development of secondary school students along the lines of nature. The matters concerned with the conduct of the recitation, management of the class, tests, examinations and scales are also taken up and discussed in considerable detail. Junior and Senior elective. Required of Juniors in the School of Education. *Fall or Spring Quarter.* Professor WILLIAMS.

62. Educational Measurements. The material of the course is the various tests and scales used in the measurement of classroom products as well as the intelligence tests used in conjunction with the subject matter tests in the organization, management and grading of children in school. The methods of giving, scoring, tabulating and interpreting these tests make up the material for class discussion, report and experimentation. Senior elective. *Spring Quarter.* Professor WILLIAMS.

Library Administration 1. The Use of Books. Instruction is given as to the kind of information specific reference books, dictionaries and encyclopedias contain. Special emphasis is laid on methods of finding material for use in the preparation of themes, essays, debates, orations and of assisting others in finding material in school or public libraries for school use. Practice at the reference desk of the University Library and the preparation of an extensive list of readings on some subject to be assigned will be required. Lectures, assigned readings, text-books. Junior and Senior elective; open to academic students. *Half Course. Winter Quarter.* Professor L. R. WILSON.

History of Education

22. The General History of Education. A brief general history of education; the development of educational theories in the past; the effect of the pedagogical doctrines of the great educators of the past upon modern educational systems. Lectures, text-books, parallel readings, theses. Junior and Senior elective; open to academic students. *Fall Quarter.* Professor NOBLE.

23. Current Education. A study of present educational tendencies and practice as seen in typical country and city school systems and in the development and supervision of the American public school of to-day. For teachers who wish to prepare for service as principals and superintendents. Lectures, text-books, research and theses. Junior and Senior elective; open to academic students. *Winter Quarter. Half Course.* Professor Noble.

24. Current Education. Continuation of Education 23 above. *Spring Quarter. Half Course.* Professor Noble.

25. History of Secondary Education. The course will attempt to trace great movements in history from the earliest times down to the present in an effort to understand what society and the State have done to help adolescents solve the problems incident to their period of development. The facts of history will be utilized to show how any given civilization or people have been at work on the problem of the education of youth of secondary school age. Senior elective; open to academic students. *Winter Quarter.* Professor Williams.

26. Public School Education in the South. This course will furnish a historical survey of public school education in the Southern States with especial attention to its development in organization, and administration, and supervision since 1876. Present-day questions in rural education will be studied in the light of such questions, and in the light also of recent advance in educational practice. Attention will be given to a study of the educational reorganization needed for the proper solution of the new rural life problems. Text-book, lectures, investigations and reports. Juniors, Seniors or Graduates; open also to academic students. *Fall or Winter Quarter.* Professor Knight.

27. American Education. A brief study of the more prominent State school systems; a comparative study of the purpose and progress of education in the different sections of the Union. Lectures, text-books, assigned readings and theses. Graduate course open to Seniors. The class will meet once a week throughout the year. Professor Noble.

DEPARTMENT OF ENGLISH

EDWIN GREENLAW, Ph.D., *Kenan Professor of English.*
FREDERICK HENRY KOCH, A.M., *Professor of Dramatic Literature.*
JAMES HOLLY HANFORD, Ph.D., *Professor of English.*
NORMAN FOERSTER, A.M., *Professor of English.*
*GEORGE MCFARLAND MCKIE, A.M., *Associate Professor of Public Speaking.*
JOHN MANNING BOOKER, Ph.D., *Associate Professor of English.*
HENRY MCCUNE DARGAN, Ph.D., *Assistant Professor of English.*
CLARENCE ADDISON HIBBARD, A.M., *Assistant Professor of English.*
JAMES STRONG MOFFATT, JR., Ph.D., *Instructor in English.*
HERMAN SCHOELER, A.B., *Instructor in English.*
THOMAS PERRIN HARRISON, JR., A.B., *Assistant in English.*
JOHN LEE AYCOCK, A.B., *Assistant in English.*
EDGAR LONG, A.M., *Professor of English, Erskine College, Summer Session, 1919.*
HAROLD MILTON ELLIS, Ph.D., *Professor of English, Trinity College, Summer Session, 1919.*
RAYMOND MACDONALD ALDEN, Ph.D., *Professor of English, Leland Stanford Junior University, Special Lecturer, Spring Quarter, 1919.*
JOHN MATTHEWS MANLY, Ph.D., *Professor of English, University of Chicago, Special Lecturer, Winter Quarter, 1920.*

Teaching Fellows in English 1919-1920

ALBERT MCKINLEY COATES, A.B.
EDWIN SAMUEL LINDSEY, A.B.
WILLIAM DOUGALD MACMILLAN, 3d, A.B.
THEODORE EDWARD RONDTHALER, A.B.

Courses for Undergraduates

1. Freshman English. Intensive reading, chiefly in American prose; extensive reading among one thousand selected books in the Library; weekly oral composition on topics discussed in a periodical; constant written composition on topics related with the intensive reading. Required of Freshmen. *Every Quarter.* Professors FOERSTER (Chairman) and DARGAN, Messrs. MOFFATT, COATES, LINDSEY, MACMILLAN, RONDTHALER, SCHOELER.

2. Composition. A continuation of English 1; required of Freshmen and upper classmen who need further drill in the essentials of writing. *Every Quarter.* Professor FOERSTER (Chairman) and Assistants.

*Absent on leave, 1919-1920.

3-4. English and American Literature. Works representative of the successive periods of English and American Literature are studied as an expression of the life and thought of the periods in which they were written and as the embodiment of permanent human interests and ideals. Required of Sophomores. *Double Course. Fall and Spring, or Winter and Spring Quarters.* Professors Hanford (Chairman), Greenlaw, Foerster, Booker, Dargan, Hibbard and Dr. Moffatt.

11. Technical Composition. A study of the forms of scientific writing — description, exposition, directions — with the aim of developing clearness, accuracy and logical thinking. Preparation and criticism of themes, and reading of illustrative literature. Required of Sophomores in Engineering Courses. *Fall Quarter.* Mr. Harrison.

12. English Literature. The purpose of this course is to make clear the relations between English literature and science, as interpreted by great scientists and men of letters. Reports, outlines and summaries based on the material read are required at frequent intervals, and class work consists of discussions by instructor and students rather than of lectures. Required of Sophomores in Engineering Courses. *Winter Quarter.* Mr. Harrison.

13. Oral Composition. A consideration of the subject and the audience, together with the study and practice of voice and gesture as media of expression. Sophomore, Junior and Senior elective. *Spring Quarter.* Professor McKie.

14. Dramatic Interpretation. A course in dramatic action and speech, using as material scenes from Shakespeare's plays and short modern plays. Sophomore, Junior and Senior elective. *Fall Quarter.* Professor McKie.

15. Public Discussion and Debate. A study of the principles of argumentation and practice in the application of these principles to speaking in such forums as the town meeting, the legislature and the court room. Junior and Senior elective. *Winter Quarter.* Professor McKie.

21-22. English Composition. Practice in composition, chiefly exposition, based for the most part on the study of contemporary literature, politics and social conditions. The course seeks also to afford opportunity for reflection on the meaning of the college

course of study; it, therefore, gives attention to right methods of study and investigation. A journal is published by the class. For Juniors and Seniors. *Fall and Winter Quarters.* Professor GREENLAW and Mr. AYCOCK.

23. The Short Story. A composition course primarily designed to offer students an opportunity for short story writing and to familiarize them with the form. The work of various European and American authors will be studied. Junior and Senior elective. *Spring Quarter.* Professor HIBBARD.

27. News Writing. An elementary course in the writing of various types of new stories. Encouragement is offered for actual publication through various channels. Open to Juniors and Seniors. A prerequisite for English 28. *Fall Quarter.* Professor HIBBARD.

28. News Editing. Preparation of copy for publication and the writing of the more advanced forms such as the editorial, dramatic criticism and book reviews. Open to Juniors and Seniors; 27 is prerequisite. *Winter Quarter.* Professor HIBBARD.

29. Feature Writing and Newspaper Criticism. A study of the special feature article in various periodicals will be made in an effort to recognize standards and types. Open to Juniors and Seniors. *Spring Quarter.* Professor HIBBARD.

31-32-33. Dramatic Composition. A practical course in playwriting. The method is frankly experimental, the one-act form being the working basis of the course. The essentials of stagecraft—settings, lighting, costumes and make-up—as applied to dramatic production are illustrated in the staging of original plays by The Carolina Playmakers. Juniors, Seniors and Graduates. *One and one half Courses.* Professor KOCH.

37. Shakespeare: Representative Plays. Certain plays are studied as representing Shakespeare's best work. Attention is given to the Elizabethan theater and to the development of Shakespeare as a playwright. For Sophomores, Juniors and Seniors. *Fall Quarter.* (Offered in 1920-1921 and in alternate years). Professor KOCH.

38. Shakespeare: Representative Plays. This course is similar in plan to English 37. Other plays are read and special consid-

eration is given to Shakespeare's conception of tragedy and of comedy. For Sophomores, Juniors and Seniors. *Fall Quarter.* (Omitted in 1920-1921.) Professor Koch.

41. The English Renaissance. The political and literary background of the English Renaissance, including the study of classical learning and medieval literature and thought influential during the period, with some consideration of the Italian Renaissance. The chief readings are in Spenser and his contemporaries. For Juniors, Seniors and Graduates. *Fall Quarter.* (Given in 1919-1920 and in alternate years.) Professor Greenlaw.

42. The English Renaissance. A study of the works of Bacon, with emphasis on his relation to the educational and political theory of the Renaissance and his contribution to scientific method. For Juniors, Seniors and Graduates. *Fall Quarter.* Given in 1920-1921 and in alternate years.) Professor Greenlaw.

43-44. The Elizabethan Drama. A brief study of the beginnings of the English drama, followed by an intensive study of the period from Lyly to the closing of the theatres. While the method of the course is historical, stress is laid upon ideas rather than technique. The works of Shakespeare and his contemporaries form the basis for the study of certain aspects of Renaissance thought and for constant application of these ideas to life. Students who propose to elect this course are advised to prepare for it by taking at least one of the following courses: English 37, 38, 41, 42. Open to Juniors, Seniors and, on certain conditions, to Graduates. *Double Course. Winter and Spring Quarters.* Professor Greenlaw.

45. Milton. The works of Milton are studied in the light of the life, times and culture of the poet, with some consideration of the literary problems which are involved in such a study. Class reports and a thesis or essay are required. Junior, Senior and Graduate elective. *Spring Quarter.* Professor Hanford.

47-48. English Life and Thought in Eighteenth Century Literature. A survey of English literature from 1660 to 1780, emphasizing (1) changes in national life and manners; (2) the growth of philosophic and political systems; (3) certain characteristic literary forms, such as comedy, the essay and the novel. For Juniors, Seniors and Graduates. *Double Course. Fall and Winter Quarters.* (The Winter Quarter will not be given in 1920-1921.) Professor Dargan.

51. English Poetry from Burns to Keats. The greater poets of the romantic period are studied as artists and interpreters of life, in the light of the personal, literary and historical circumstances under which they wrote. Sophomore, Junior and Senior elective. *Fall Quarter.* Professor HANFORD.

52. Aspects of the Romantic Movement. This course is a continuation of English 51 for students who wish to pursue a more systematic study of the origins and development of the Romantic Movement. It includes consideration of the continental relations of English Romanticism, an analysis of its various elements, and a discussion of the classical and romantic ideals of art. This course assumes a knowledge of the materials of English 51, but may be taken independently by properly qualified students. For Juniors, Seniors and Graduates. *Winter Quarter.* Professor HANFORD.

55. Victorian Literature. The purposes of the course are to understand the best known works of Carlyle, Tennyson, Browning, Arnold, Ruskin and Swinburne; to appreciate their beauty, and to relate them both to their times and to ours. Open to Sophomores, Juniors and Seniors. *Winter Quarter.* Professor BOOKER.

56. Victorian Literature: Advanced Course. The work of the course will be in the literature that reflects the English political, economic, social and religious thought of the age that raised the main questions now facing our own generation. Open to Juniors, Seniors and Graduates. *Spring Quarter.* (Given in 1920-1921 and in alternate years.) Professor BOOKER.

59. American Literature. The leading writers and tendencies are studied for their interpretation of life and their revelation of American ideals. Sophomore, Junior and Senior elective. *Winter Quarter.* Professor FOERSTER.

60. American Literature. A more advanced course for members of English 59 who desire to study more intensively the work of Franklin, Emerson and Whitman. Junior, Senior and Graduate elective. *Spring Quarter.* Professor FOERSTER.

61. English Literature: Studies in Great Books. The aim of the course is to interest the student in the masterpieces of English Literature by revealing these as guides for man in the most vital relationships of life. For Sophomores, Juniors and Seniors. *Fall Quarter.* Professor BOOKER.

65-66. The Nineteenth Century Novel. A survey of the development of the English novel during the nineteenth century, with attention to parallel developments in French and Russian fiction. Special studies will be made of Scott, Thackeray, George Eliot and George Meredith; considerable reading will be required in the work of Balzac, Turgenieff and Tolstoy. Sophomore, Junior and Senior elective. *Double Course. Winter and Spring Quarters.* Professor Dargan.

67. Recent English Literature. The primary object of the course is to follow certain main currents of modern thought in the more significant literature of the last three decades. The authors with whom the course is chiefly concerned are Hardy, Kipling, Arnold, Bennett, Wells and Shaw. Junior and Senior elective. *Spring Quarter.* (Offered in 1919-1920 and in alternate years.) Professor Booker.

68. Comparative Drama. A general survey of the drama and the theatre from Aeschylus to Ibsen. The history of the stage and the development of dramatic literature is studied through representative plays in translation of the leading European dramatists. For Juniors, Seniors and Graduates. *Winter Quarter.* Professor Koch.

69. Comparative Drama. A survey of the European drama from Ibsen to the present time through selected plays. Special attention is given to the new technique and to the function of the drama in interpreting modern thought and changing social conditions. For Juniors, Seniors and Graduates. *Spring Quarter.* Professor Koch.

71. The Modern Drama. A study of the drama of the present day beginning with Ibsen and giving special attention to the Irish Renaissance and to plays dealing with contemporary social and industrial problems. For Juniors, Seniors and Graduates. *Spring Quarter.* (Offered in 1919-1920 and in alternate years.) Professor Koch.

81. Old English: Introductory Course. A careful study is made of Old English grammar and syntax, and the language of the older period is considered in its relation to present-day English. A considerable amount of Anglo-Saxon is read. For Juniors, Seniors and Graduates. *Fall Quarter.* Dr. Moffatt.

82. Beowulf. The Old English epic is studied in detail; grammar and syntax are reviewed, and some attention is paid to the relation of the Old English epic to Germanic epic material. For Juniors, Seniors and Graduates. *Winter Quarter.* Dr. MOFFATT.

83. Chaucer. No previous training in Old or Middle English is required. The work of the course will consist chiefly of a reading and discussion of Chaucer's works, with only so much of grammar and syntax and of other reading as will be necessary for an understanding and appreciation of Chaucer. For Juniors, Seniors and Graduates. *Spring Quarter.* Dr. MOFFATT.

84. Middle English Literature. The main purpose of the course is to acquaint the student with the social, political and religious background of mediæval England. A fuller study will be made of the historical and philological relations of Middle English than in English 83. For Juniors, Seniors and Graduates. *Fall Quarter.* (To be omitted in 1920-1921.) Dr. MOFFATT.

93. Seminar: Criticism. This course will aim (1) to relate to the wisdom of the past representative contemporary solutions of some problems of modern thought, (2) to foreshadow the necessary tendencies of literature and thought in the future. Emphasis will fall on the religious, philosophical and ethical aspects of the literature studied. For Seniors and Graduates. *Fall Quarter.* Professor FOERSTER.

Courses for Graduates

Courses 31-32-33, 41, 42, 43-44, 45, 47-48, 52, 56, 60, 68, 69, 71, 81, 82, 83, 84, 93 and

90. Seminar. Research in a special field under the direction of a member of the Department.

94-95. Seminar. The principles and method of the higher study of English. *Winter Quarter:* a general introduction to advanced study, with a series of simple problems in bibliography, literary history and criticism. *Spring Quarter:* a continuation of the work of the preceding quarter, followed by a study of the method and content of the English course in high schools and in elementary college classes. *Winter and Spring Quarters.* Professor GREENLAW.

DEPARTMENT OF ELECTRICAL ENGINEERING

Parker Hayward Daggett, S.B., *Professor of Electrical Engineering.*
John Harris Mustard, B.S. in E.E., *Professor of Electrical Engineering.*
John Emery Lear, E.E., *Professor of Engineering Sciences.*
Phillip Carver Smith, *Assistant in Electrical Engineering.*
Marshall Edgar Lake, *Assistant in Electrical Engineering.*

(For description of Electrical Engineering Laboratories see page 45.)

Courses for Undergraduates

1-2-3. Essentials of Electrical Engineering. A course designed for students in Chemistry and Civil Engineering. Prerequisite, Physics 1-2, and Mathematics 4. *Triple Course. Fall, Winter and Spring Quarters.* Professor Lear.

Laboratory fee, $3.00 a quarter.

10-11-12. Elements of Electrical Engineering. A course in the fundamental concepts of Electrical Engineering. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Mustard.

Laboratory fee, $6.00 a quarter.

20-21-22. Principles of Electrical Engineering. A continuation of course 10-11-12 with more emphasis on the mathematical theory. Prerequisite, E.E. 10-11-12. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Lear.

Laboratory fee, $3.00 a quarter.

24-25. Engineering Problems. A series of graded problems in the applications of mathematics to engineering. Prerequisite E.E. 10-11-12. *Winter and Spring Quarters.* Professor Daggett.

30-31-32. Direct and Alternating Current Machines. Application of fundamental principles to the operation of the various types of electrical machines. Prerequisite, E.E. 20-21-22. *Triple Course. Fall, Winter and Spring Quarters.* Professor Mustard.

Laboratory fee, $3.00 a quarter.

33-34-35. Electrical Measurements. A study of the various types of measuring instruments and of the methods of measuring

electrical and magnetic quantities. Prerequisite, E.E. 20-21-22. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor LEAR.

Laboratory fee, $3.00 a quarter.

40-41-42. Special Studies in Electrical Machinery. A comparative study of commutation, armature reaction, regulation, etc., in direct and alternating current machinery. Prerequisite, E.E. 30-31-32. *Triple Course. Fall, Winter and Spring Quarters.* Professor DAGGETT.

Laboratory fee, $3.00 a quarter.

43. General Electrical Engineering. Power Transmission; Telephone and Telegraph Engineering. Prerequisite, E.E. 30-31-32. *Half Course. Fall Quarter.* Professor LEAR.

Laboratory fee, $3.00.

44. General Electrical Engineering. Radio Engineering; Illumination and Photometry. Prerequisite, E.E. 30-31-32. *Half Course. Winter Quarter.* Professor DAGGETT.

Laboratory fee, $3.00.

45. General Electrical Engineering. Railway Engineering; Storage Batteries. Prerequisite, E.E. 30-31-32. *Half Course. Spring Quarter.* Professor LEAR.

Laboratory fee, $3.00.

Courses for Graduates

50-51-52. Electrical Engineering Seminar. Readings and Discussions of recent advances in Electrical Engineering. *Triple Course. Fall, Winter and Spring Quarters.* Professors DAGGETT, MUSTARD and LEAR.

53-54-55. Electrical Engineering Research and Design. The study of one or more definite problems in some particular field of Electrical Engineering. *Triple Course. Fall, Winter and Spring Quarters.* Professors DAGGETT, MUSTARD and LEAR.

MECHANICAL ENGINEERING

1. Heat engines. Construction, operation and maintenance of the principal types of boilers, steam-engines and turbines. *Fall Quarter.* Professor DAGGETT.

2. Engineering Thermodynamics. A practical study of the fundamental laws governing the transformation of heat energy into useful work. *Winter Quarter.* Professor Daggett.

3. Steam and Hydro-Electric Power Plants. Construction, operation and management of factory power plants and central stations; economics and cost of power; rates. *Spring Quarter.* Professor Daggett.

GENERAL COURSES

General Courses are administered by a Special Committee consisting of Professors Howe, Carroll and Coker.

1. Introduction to University Life and Study. Required of Freshmen in the College of Liberal Arts. One lecture a week. *Fall Quarter.* President Chase.

2. Personal and Community Health. Required of Freshmen in the College of Liberal Arts. One lecture a week. *Winter Quarter.* Professor MacNider.

3. The Choice of a Profession. Required of Freshmen in the College of Liberal Arts. One lecture a week. *Spring Quarter.* Professor Carroll.

4. The Natural Sciences. Required of Sophomores in the College of Liberal Arts. One lecture a week. *Fall Quarter.* Professor H. V. Wilson.

5. The Political and Social Sciences. Required of Sophomores in the College of Liberal Arts. One lecture a week. *Winter Quarter.* Professor Pierson.

6. Literature and the Arts. Required of Sophomores in the College of Liberal Arts. One lecture a week. *Spring Quarter.* Professor Hanford.

DEPARTMENT OF GEOLOGY

COLLIER COBB, A.M., Sc.D., *Director and Professor of Geology and Mineralogy.*
JOSEPH HYDE PRATT, Ph.D., *State Geologist, Professor of Economic Geology.*
WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
JEFFERSON CARNEY BYNUM, S.B., *Instructor in Mineralogy.*
HARRY TOWLES DAVIS, A.B., *Assistant in Geology.*
WILLIAM HENRY ANDREWS, JR., *Assistant in Geology.*
JASPER LEONIDAS STUCKEY, A.B., *Assistant in Geography.*
JOSIAH SMITH BABB, *Assistant in Geography.*

Courses for Undergraduates

(For description of Geological Laboratories see page 40.)

1-2. Introduction to Geology: Lectures with field work; laboratory work in the first term on common minerals and rocks, in the second term on rocks and the more common fossils. The first term deals with physical geology, with physiographic processes and their results; the second term is a study of the outlines of historical geology. *Fall and Winter Quarters.* Sophomore, Junior, or Senior elective. Professor COBB, Messrs. DAVIS and ANDREWS.

Laboratory fee, $2.50 a quarter.

3-4. Mineralogy: Crystallography, physical and chemical properties of minerals, blowpipe analysis; lectures, laboratory work and field work. Junior or Senior elective. Prerequisites, Geology 1-2, and Chemistry 1-2. *Double Course. Fall and Winter Quarters.* Mr. BYNUM.

Laboratory fee, $5.00 a quarter.

7. Principles of Geology, including History of Geological Science: Lectures, field work and library work, with reports; including a report on the surficial geology of a selected area at a distance from Chapel Hill. Junior and Senior elective. *Fall Quarter.* Professor COBB and Mr. ANDREWS.

Laboratory fee, $3.00.

8-9. Stratigraphy: Lectures, with laboratory work and field work, conferences and theses. The first term deals with sedimen-

tation, stratigraphic relations and structural geology; the second term with palæontology and historical geology. Prerequisite, Geology 1-2. *Double Course. Fall and Winter Quarters.* Professor PROUTY and Assistants.

Laboratory fee, $5.00 a quarter.

10. Oil Geology: Lectures, laboratory work and reports. A study of the origin and accumulation of petroleum, with special relation to the oil fields of North America; methods of prospecting for oil, and valuation of oil properties. *Spring Quarter.* Professor PROUTY.

Laboratory fee, $5.00.

11. Ore Deposits: Lectures, laboratory work and reports. The fundamental principles of Geology and Chemistry involved in the formation of ore deposits; a consideration of specific occurrences of iron, copper, zinc, lead, tin, aluminum, the precious metals, and the rarer metals. Junior or Senior elective. Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2. *Fall Quarter.* Professor PROUTY.

Laboratory fee, $2.00.

12. Non-metallic Mineral Deposits: Lectures, laboratory work and reports; coal, clays, building stone, cement materials, fertilizers, underground waters, etc.; occurrence, methods of exploitation, production and conservation of mineral resources. Junior and Senior elective. Prerequisites, Geology 1-2, 3-4, Chemistry 1-2. *Winter Quarter.* Professor PROUTY.

Laboratory fee, $2.00.

13. Petrology: Laboratory work on rocks; a study of the origin, classification and distribution of rocks. Junior and Senior elective. Prerequisites, Geology 1-2, 3-4, Chemistry 1-2. *Spring Quarter.* Professor PROUTY.

Laboratory fee, $2.00.

14. Petrography: Lectures, laboratory work on the microscopic physiography of the rock-forming minerals: optical mineralogy and the theory of light as applied to the polarizing microscope; minerals as observed in thin rock sections. Prerequisites, Geology 1-2, 3-4, Chemistry 1-2. Junior and Senior elective. *Winter Quarter. Half Course.* Professor PROUTY.

Laboratory fee, $3.00.

21-22. Industrial and Commercial Geography: Lectures, library work and laboratory work. The course deals with man's interaction with his varying environment in the development of industries, and with the geographic conditions of different countries as giving rise to commerce. Senior elective. *Double Course. Fall and Winter Quarters.* Professor COBB and Mr. ANDREWS.

Laboratory fee, $2.50 a quarter.

23-24. Origin and Nature of Soils: Lectures, field work, laboratory work and theses. The course is given primarily for men who wish to enter the State or Federal Soil Surveys or to engage in farming. Prerequisites. Geology 1-2, 3-4, Chemistry 1-2. Junior and Senior elective. *Double Course. Winter and Spring Quarters.* Professor COBB, Messrs. BYNUM and COBB.

Laboratory fee, $2.50 a quarter.

25. Advanced Course in Physiography: Lectures, field work and laboratory work, dealing, in detail, with physiographic processes and their results, geomorphology. Prerequisite, Geology 1-2. *Half Course. Spring Quarter.* An extended field study is required in this course. Professor COBB.

Laboratory fee, $2.00.

42. Mineral and Ore Deposits: Lectures, supplemented by laboratory and field work. *Half Course. Spring Quarter.* Professor PRATT.

43. Advanced Work in Mineralogy. Senior elective. *Spring Quarter. Half Course.* Professor PRATT.

51-52-53. Advanced field work and special research in Geology or Geography. Problems and work adapted to the special needs of the student. For Graduates and for specially prepared Seniors. *Triple Course. Fall, Winter and Spring Quarters.* Professors COBB and PROUTY and Assistants.

Courses for Graduates

Courses 7, 8-9-10, 11-12, 13-14, 21-22, 23-24, 51-52-53, and in addition:

54. Special Research in Geology or Geography: the student is expected to devote six weeks to work in the field, accompanied

by the instructor, and to work up his results during the college year, the entire research constituting a triple course. Professors Cobb and Prouty.

The Geological Seminar meets fortnightly for the review and discussion of current geological literature, and for the presentation of original papers.

DEPARTMENT OF GERMANIC LANGUAGES

Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literature.*
Kent James Brown, Ph.D., *Associate Professor of German.*
John Theodore Krumpelmann, M.A., *Instructor in German.*

Courses for Undergraduates

1-2. Elementary Course: grammar; written and oral exercises; translation; sight reading. This course may be counted for credit towards the degree by those only who have fulfilled the entrance requirement in two other foreign languages, and provided it is followed by German 3-4. *Double Course. Fall and Winter or Winter and Spring Quarters.* Professor Toy and Mr. Krumpelmann.

3-4. Translation, sight reading, composition, grammar. Freshman and Sophomore elective. *Double Course. Fall and Winter Quarters.* Professor Brown and Mr. Krumpelmann.

11. Practice in writing and speaking German. Prerequisite, German 3-4. Junior and Senior elective. *Spring Quarter.* Professor Brown.

21-22. Lessing: Minna von Barnhelm; Schiller; Die Jungfrau von Orleans, Wilhelm Tell; Gœthe: Iphigenie auf Tauris, or Egmont. Sophomore, Junior and Senior elective. Prerequisite, German 3-4. *Double Course. Fall and Winter or Winter and Spring Quarters.* Professor Toy.

23. Romanticism in Germany: Lectures, reading of selected texts. Sophomore, Junior and Senior elective. Prerequisite, German 3-4. *Spring Quarter.* Professor Toy.

25-26. German Literature in the nineteenth century since Gœthe's death: Lectures and reading of representative works.

Sophomore, Junior and Senior elective. Prerequisite, German 3-4. *Double Course. Fall and Winter or Winter and Spring Quarters.* Professor BROWN.

Courses 21-22, 23, 25-26, are parallel in grade. They present an introduction to the study of German literature.

41-42. Gœthe's Life and Works: Lectures, reading, reports. Götz von Berlichingen, Werthers Leiden, Tasso, Gedichte, Hermann und Dorothea, Dichtung und Wahrheit. References: Scherer's and Francke's histories of German literature. English and German works on Gœthe's life. Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *Double Course.* Professor BROWN.

This course may be elected only after consultation with the instructor.

43-44. Gœthe: Faust, Parts I and II. Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *Double Course. Two Quarters.* Professor TOY.

This course may be elected only after consultation with the instructor.

45. Kleist and Hebbel. Reading and interpretation of selected dramas; lectures and reports. Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *One Quarter.* Professor BROWN.

This course may be elected only after consultation with the instructor.

61. Gothic: Braune's *Gotische Grammatik;* selected parts of Paul's *Grundriss der Germanischen Philologie.* Introduction to Germanic Philology. Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *One Quarter.* Professor TOY.

63. Old High German: Braune's *Althochdeutsche Grammatik;* Braune's *Althochdeutsches Lesebuch.* Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *One Quarter.* Professor TOY.

67. Middle High German: Wright's *Middle High German Primer,* 3d Edition; von Kraus' *Mittelhochdeutsches Uebungsbuch;* translation into New High German. Junior and Senior elective. Prerequisite, German 21-22, or 23, or 25-26. *One Quarter.* Professor BROWN.

This course may be elected only after consultation with the instructor.

A certificate is granted to a student who has completed with credit any four courses exclusive of Course 1-2.

Courses for Graduates

Courses 41-42, 43-44, 45-46, 61, 63, 67.

Note.—Courses 11, 41-42, 43-44, 45, 61, 63, 67 will be given, if they are desired by a sufficient number of students. In any case the department reserves the right to withdraw a course for which the registration is very small.

Students who desire to take any of these courses are advised to confer in advance with the instructors concerned.

DEPARTMENT OF GREEK

William Stanly Bernard, A.M., *Associate Professor of Greek.*
Clinton Walker Keyes, Ph.D., *Instructor in Classics.*

Courses for Undergraduates

1-2. Beginners Greek. A course for students who have had no opportunity of studying Greek in the preparatory schools. This course may be counted for credit towards the degree by those who have fulfilled the entrance requirements in two other foreign languages, and provided it is followed by Greek 3-4. *Double Course. Fall and Winter Quarters.* Professor Bernard.

3-4. (1) Greek Prose. A course continuing Greek 1-2: Xenophon, *Anabasis, Symposium;* Lycias, *Selected Speeches;* (2) Homer, *Iliad,* Books I, II, III, and *Odyssey,* Book VI. Freshman elective. *Double Course. Fall and Winter Quarters.* Professor Bernard.

5. Plato. Apology and Crito with selections from the other Socratic dialogues. Lectures on Greek life, politics, religion and literature. Sophomore elective. Prerequisite, Greek 3-4. *Spring Quarter, or on application.* Professor Bernard, or Mr. Keyes.

6. Drama. Euripides, Alcestis; Aristophanes, Frogs. Lectures on the drama. Sophomore elective. Prerequisite, Greek 3-4. *Spring Quarter or on application.* Professor Bernard.

11. Homer: rapid reading of entire Odyssey with Humeric Study. Prerequisite, Greek 3-4. Sophomore, Junior and Senior elective. *Spring Quarter or on application.* Professor Bernard, or Mr. Keyes.

21-22. Greek Drama. An extended reading and study of the Greek drama with lectures on the origin, history and structure of the drama. Prerequisite, Greek 6. *Double Course. Two Terms on application.* Professor BERNARD.

23-24-25. Greek drama in English Translations. A course designed to embrace the origin, development, technique and content of the entire Greek Drama, with emphasis on the tragedy as one interpretation of Greek life and thought as a contribution to world progress. Open to Graduates and such Seniors and Juniors as may be admitted by the instructor. *One and a half Courses. Three Quarters.* Professor BERNARD.

43-44. The Greek New Testament. The Acts of the Apostles, study of grammar and diction, comparison with English versions; the Gospels, with selections from the Epistles; the principles of textual criticism; sources and history of the Greek text and the versions. Junior and Senior elective. Prerequisite, Greek 3-4. *Spring Quarter, or on application.* Professor BERNARD.

61-62. Greek and Roman Art. History and Principles of Greek and Roman architecture, sculpture, painting, with some account of the minor arts. Lectures with prescribed reading. Junior and Senior elective. *On application.* Professor BERNARD.

This course is the same as Latin. 61-62.

Courses for Graduates

21-22, 23-24-25, 43-44, as above and in addition:

35-36. Greek History. The selections from Greek historians in Parts I and II of Baumeister's *Quellenbuch zur Alten Geschichte.* Professor BERNARD.

39-40-41. Critical Study of Special Authors: with lectures on Classical Greek syntax, meters, dialects, oral and written translation into Greek, the history of Athens from the battle of the Arginusæ to the Restoration of the Democracy. *One and a half Courses.* Professor BERNARD.

DEPARTMENT OF HISTORY AND GOVERNMENT

Joseph Gregoire deRoulhac Hamilton, Ph.D., *Alumni Professor of History.*
Henry McGilbert Wagstaff, Ph.D., *Professor of History.*
William Whatley Pierson, Jr., Ph.D., *Associate Professor of History.*
Frank Porter Graham, M.A., *Assistant Professor of History.*

History

Courses for Undergraduates

1-2. Foundations of Modern History. A general course dealing with the fundamental factors in modern civilization in Europe and the United States. The emphasis of the course will rest upon the intellectual revolution, European expansion, the Protestant Revolt, colonial and dynastic rivalry, the Old Regime, the French Revolution, the industrial revolution, the rise of democracy, the role of nationalism, modern imperialism, and modern international relations. Lectures, text-books and readings. Required of all Freshmen. *Double Course. Two Quarters.* Professors Hamilton, Wagstaff, Pierson and Graham.

3-4. The purpose of this course is to convey a good working knowledge of English history and broaden it into a survey of the part the Anglo-Saxon race has played in world history. Text-book, readings and lectures. Sophomore, Junior and Senior elective. *Double Course. Fall and Winter Quarters.* Professor Wagstaff.

9-10. Hispanic-American History. A careful study of the history, geography, political and social institutions, and the economic development and possibilities of Hispanic-American countries. In the fall quarter a study is made of the Spanish and Portuguese colonial systems and of the movements and wars for independence; in the winter quarter attention is directed to the development of republics, the struggle for political stability, the exploitation of resources, and the course of international relations. Sophomore, Junior and Senior elective. *Double Course. Fall and Winter Quarters.* Professor Pierson.

11-12. Mediæval Europe. The development of Europe and its civilization from the decline of the Roman Empire to the end of the fifteenth century. Text-books, readings and lectures. Junior and Senior elective. *Fall and Winter Quarters.* Professor Wagstaff.

14. Modern Europe. A study of modern and contemporary Europe from the angle of the primary forces that shaped the life of European nations during the past hundred and fifty years. Text-book, readings and lectures. Junior and Senior elective. *Spring Quarter.* Professor WAGSTAFF.

15-16. Classical History. (To be omitted in 1920-1921.)

22. The Protestant Revolt. (To be omitted in 1920-1921.)

23. The French Revolution and the Napoleonic Period. A course which deals with the causes—political, intellectual, social and economic—events and results of the French Revolution. Lectures, text-books and readings. Junior and Senior elective. *Spring Quarter.* Professor PIERSON.

28. The Federal Period. American History through the period 1789-1861. Special emphasis in this course is laid upon the struggle of the American people to adjust to the federal principle in the Constitution. Text-books, readings and lectures. Junior and Senior elective. *Winter Quarter.* Professor WAGSTAFF.

29. Civil War and Reconstruction. A course dealing with the more important constitutional, political and economic phases of the period from 1861 to 1876. Lectures, readings and reports. Junior and Senior elective. *Spring Quarter.* Professor HAMILTON.

30. Contemporary American History. A general course dealing with political and social relations in the United States from the close of Reconstruction to the beginning of the World War. Lectures, text-books and readings. Junior and Senior elective. *Spring Quarter.* Professor PIERSON.

Courses for Graduates

17-18-19. North Carolina History. A seminar course on the social, economic and political history of the State of North Carolina. The course continues throughout the year, a weekly conference being held for the presentation of reports and discussion. *One and a half Courses.* Professor HAMILTON.

31-32-33. Inter-American Relations: a research course concerned with the diplomatic relations of the United States and the Hispanic-American countries. Some particular aspect will be

selected for investigation. Prerequisite for this course, History 9-10. Lectures and reports. *Three Quarters. One and a half Courses.* Professor Pierson.

Government

Courses for Undergraduates

1-2. Comparative Government. In this course an intensive study will be made of the governmental and social institutions of the leading states of the modern world. The first quarter will be devoted to the treatment of the governments of Great Britain, the British Empire, and the United States. In the second quarter the chief emphasis will be placed upon those of the important countries of Continental Europe. Text-books, lectures, discussions and reading. Sophomore, Junior and Senior elective. *Double Course. Fall and Winter Quarters.* Professor Hamilton.

3. Government and Business. A brief course dealing with the relations of modern governments to agriculture, industry and commerce. After tracing the historical development of these relations for the past century, the remainder of the course will be devoted to an investigation of the purposes and principles underlying present-day conditions. Open only to students in the School of Commerce and those receiving a permit from the instructor. *Half Course. Spring Quarter.* Professor Hamilton.

5-6. The Elements of Political Science. A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, text-books and readings. Junior and Senior elective. *Fall and Winter Quarters.* Professor Pierson.

8. The Constitution of the United States. In this course an intensive study will be made of the workings of the American Constitution. The subject will be approached from the legal and constitutional rather than from a political angle. The main body of the work consists in the study and analysis of cases, supplemented by lectures and discussions. Junior and Senior elective. *Fall Quarter.* Professor Hamilton.

9-10. Modern Municipal Government. (To be omitted in 1920-1921.)

Courses for Graduates

21-22. American Political Theory. A course respecting the political philosophy that has been developed in the United States. A seminar dealing with some selected phase. Open to approved Seniors. Lectures and reports. Professor PIERSON.

23-24-25. The American Constitution. An inquiry into the sources of the American Constitution and a study of its application and development under changing conditions of the American people. Research in special topics. Lectures, reading and reports. Open only to graduate students and approved Seniors. *One and a half Courses.* Professor WAGSTAFF.

26-27-28. Modern International Relations. A conference course dealing with the history and methods of modern international relations. Special emphasis will be laid upon specified topics, such as modern imperialism, the influence of nationalism, and the movement for international organization. *One and a half Courses.* Professor HAMILTON.

A certificate is granted to a student who has completed with credit the equivalent of nine courses in History and Government.

DEPARTMENT OF LATIN

GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*

GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Professor of Latin.*

GUSTAVE ADOLPHUS HARRER, Ph.D., *Assistant Professor of Latin.*

CLINTON WALKER KEYES, Ph.D., *Instructor in Classics.*

Courses for Undergraduates

1-2. Cicero, De Senectute; Livy, Selections; Horace, Odes; Terence, Phormio; sight reading. Freshman elective. *Double Course. Fall and Winter or Winter and Spring Quarters.* Professors HOWE, HENRY, HARRER and Mr. KEYES.

3. Selections from Pliny and Tacitus. Readings and discussions. Prerequisite, Latin 1-2. *Fall or Spring Quarter.* Professors HOWE, HENRY, HARRER and Mr. KEYES.

4. Roman Law. This course deals with the general principles and the historical development of Roman law. The work will

consist of the translation of selected passages in legal literature, readings and lectures. Prerequisite, Latin 1-3. *Winter Quarter.* Professor Harrer.

5. Roman Satire: readings from Horace, Petronius, Persius Juvenal; occasional lectures. Sophomore elective. *Winter Quarter.* Professor Henry.

6. Cicero's Letters; the reading of selected letters and discussions of the history and politics of the time. Sophomore elective. *Spring Quarter.* Mr. Keyes.

10. Latin Literature in English Translation: lectures and readings. This course is open to students who have no knowledge of the Latin language. Sophomore, Junior and Senior elective. *Spring Quarter.* Professor Howe.

11. Teacher's Course: pronunciation, forms, syntax, prosody, the art of translating, methods of instruction. Junior and Senior elective. Prerequisite, Latin 1-3. *Fall Quarter.* Professor Henry.

12. Roman Historical and Biographical Literature. A study of the structure, purposes, and methods of the most significant works. Translation and readings in English from the literature; reports; lectures. Junior and Senior elective. Prerequisite, Latin 1-3. *Fall Quarter.* Professor Harrer.

13. Roman Dramatic Literature: a study of the historical development of Latin comedy and tragedy; reading of selected plays. Junior and Senior elective. Prerequisite, Latin 1-3. *Winter Quarter.* Professor Henry.

14. The Latin Epic: the history of Latin Epic; detailed study of the Æneid. Junior and Senior elective. Prerequisite, Latin 1-3. *Spring Quarter.* Professor Howe.

15. The Beginnings of Prose Fiction. A study of the origins and development of story-writing in ancient times, with emphasis on the novel. Readings from the Greek Romances, Petronius and Apuleius. Knowledge of Greek and Latin not required. Junior and Senior elective. *Spring Quarter.* Mr. Keyes.

16. Early Christian Literature. A study of selected parts of the writings of the early Roman Christians and of their relations to the Roman state and civilization. Prerequisite, Latin 1-3. *Spring Quarter.* Professor HARRER.

17. Greek History. A general course extending from the earliest times to the Roman Conquest. Emphasis will be laid on the development of the Spartan and Athenian States. Sophomore, Junior and Senior elective. *Fall Quarter.* Mr. KEYES.

18. Roman History. A general course. Emphasis will be laid on the social and political development of Rome and the influence of the Roman Empire upon modern European civilization. Sophomore, Junior and Senior elective. *Winter Quarter.* Mr. KEYES.

A certificate is granted to a student who has completed with credit courses 1, 2, 3, 11, and 3 elective courses.

Courses for Graduates

12, 13 and 14, as above, and further:

20-21-22. Latin Seminar: the study in detail of a particular author or period in Roman literature. *Triple Course. Fall, Winter and Spring Quarters.* Professor HOWE.

23-24. Latin Epigraphy and Palæography. *Double Course. Winter and Spring Quarters.* Professor HARRER.

DEPARTMENT OF MATHEMATICS

WILLIAM CAIN, A.M., LL.D., *Kenan Professor of Mathematics.*
ARCHIBALD HENDERSON, Ph.D., D.C.L., *Professor of Pure Mathematics.*
*JOHN WAYNE LASLEY, A.M., *Assistant Professor of Mathematics.*
*WILLIAM WALTER RANKIN, JR., A.M., *Assistant Professor of Mathematics.*
ALLAN WILSON HOBBS, Ph.D., *Assistant Professor of Mathematics.*
NORMAN MORTON PAULL, S.B., *Assistant Professor of Drawing.*
ARTHUR SIMEON WINSOR, A.M., *Assistant Professor of Mathematics.*
CHARLES MORTIMER HAZLEHURST, *Instructor in Mathematics.*
JOE BURTON LINKER, A.B., *Instructor in Mathematics.*

*Absent on leave.

William Fred Hunter, A.B., *Instructor in Mathematics.*
William Enoch Price, A.B., *Instructor in Mathematics.*
James Blaine Davis, A.B., *Instructor in Mathematics.*

Courses for Undergraduates

Pure Mathematics

1. Algebra: from Quadratics through Theory of Equations. Required of Freshmen. *Fall or Winter, or Spring Quarters.* Professors Henderson, Hobbs and Winsor, Messrs. Linker, Hazlehurst, Hunter, Price and Davis.

1a. (For Engineering Students.) The same as Mathematics 1, with special emphasis upon practical applications. Professors Hobbs and Winsor.

2. Plane Trigonometry and Logarithms. Required of Freshmen. *Fall, or Winter, or Spring Quarters.* Professors Henderson, Hobbs and Winsor, Messrs. Linker, Hazlehurst, Hunter, Price and Davis.

2a. (For Engineering Students.) The same as Mathematics 2, with special emphasis upon practical application. Professors Hobbs and Winsor.

3. Brief Course in Analytic Geometry. Sophomore, Junior and Senior elective. *Spring Quarter.* Professors Cain and Henderson.

4. Elementary Course in Differential and Integral Calculus. Sophomore, Junior and Senior elective. Prerequisite, Mathematics 3. *Fall Quarter.* Professors Cain and Henderson.

4a. The same as Mathematics 4, with a more extended course in the Integral Calculus. Professor Hobbs.

5-6. Descriptive Geometry; Shades, Shadows and Elementary Perspective; lectures, recitations. Junior and Senior elective Prerequisite, Drawing 1-2. *Fall and Winter Quarters.* Professor Paull.

9. Theory of Equations. Sophomore, Junior and Senior elective. Prerequisite, Mathematics 1-2. *Half Course. Fall Quarter.* Professor Henderson.

10. Differential Equations: elementary course. Junior and Senior elective. Prerequisite, Mathematics 11. *Half Course. Spring Quarter.* Professor HENDERSON.

11. Calculus. Junior and Senior elective. Prerequisite, Mathematics 4. *Winter Quarter.* Professor CAIN.

12. Analytic Mechanics. Junior and Senior elective. Prerequisite, Mathematics 11. *Spring Quarter.* Professor CAIN.

13-14. Theory of Equations (Burnside and Panton). Junior and Senior elective. Prerequisite, Mathematics 4. *Two Quarters.* Professor HENDERSON.

15-16. Differential Equations (Murray). Senior elective. Prerequisite, Mathematics 12. *Two Quarters.* Professor HENDERSON.

31-32. The Foundations of Geometry. Texts: Hilbert, Veblen; collateral reading. Senior elective. *Two Quarters.* Professor HENDERSON.

33-34. Principles and Methods of Teaching Elementary Mathematics. History and Methods of Teaching Elementary Mathematics. Prerequisite, Mathematics 1-2. *Two Quarters.* Professor RANKIN.

Drawing

1-2. This course is designed to give the student who has never handled mathematical drawing instruments a thorough course of instruction in their use, and an understanding of the elementary principles of mechanical drawing. Text-book, French's *Engineering Drawing. Fall and Winter, or Winter and Spring Quarters.* Professor PAULL.

3-4. Civil Engineering Drawing: (*a*) Land survey and topographic mapping; (*b*) Advanced lettering: the Roman and Gothic letters and the arrangement of lettering on maps and titles; (*c*) Structural Drawing: a study of the drawing of girders, trusses, and various minor engineering structures. Prerequisite, Drawing 1-2. *Winter and Spring Quarters.* Professor PAULL.

5-6. Machine Drawing: A study of the representation of machine parts; detail and assembly drawings from models and sketches, careful attention being given to billing of material and

to standard drawing-room practice and systems. The last few weeks of the course are devoted to the study of the elementary principles of mechanism and the solution of several problems based thereon. Prerequisite, Drawing 1-2. *Spring and Fall Quarters.* Professor Paull.

11. The advanced theory and practice of perspective and its application to engineering structures. Senior elective. Prerequisites, Drawing 1-2 and Mathematics 5-6. *Half Course. One Quarter.*

12. Stereotomy: a course in the application of descriptive geometry to the making of drawings for masonry structures such as intersecting arches and walls, abutments, piers and culverts. A study of warped surfaces and drawings for the helicoidal arch. Senior elective. Prerequisite, Mathematics 5-6. *Half Course. One Quarter.*

Courses for Graduates

Pure Mathematics

Any of the following courses, 11-12 to 33-34, inclusive, may be elected; but not more than nine will ordinarily be given in any one year. Should more than this number be applied for, the course desired may be arranged on consultation with the instructor concerned.

Courses 11, 12, 13-14, 15-16, 31-32, 33-34, and in addition:

17-18. Advanced Differential and Integral Calculus. Prerequisite, Mathematics 11-12. *Two Quarters.* Professor Cain.

19-20. Vector Analysis. Prerequisite, Mathematics 11-12. *Two Quarters.* Professor Cain.

21-22. Modern Synthetic Geometry. Text: Russell. Prerequisite, Mathematics 11-12. *Two Quarters.* Professor Henderson.

23-24. Modern Analytic Geometry. Text: Smith, C. Prerequisite, Mathematics 11-12. *Two Quarters.* Professor Henderson.

25-26. Analytic Geometry of Space. Text: Smith, C. Prerequisite, Mathematics 3-4. *Two Quarters.* Professor Henderson.

27-28. An elementary course in Analysis. Lectures on the theory of functions of the real and the complex variable. Assigned work and collateral reading. Prerequisite, Mathematics 17-18. *Two Quarters.* Professor LASLEY.

29-30. Advanced Analytic Mechanics. Prerequisite Mathematics 11-12. *Two Quarters.* Professor CAIN.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

MAJOR FREDERICK WILLIAM BOYE, *Professor of Military Science and Tactics, R.O.T.C.*

FRESHMAN COURSE:

Military Courtesy and Discipline (4); Drill, close and extended order (35); Ceremonies (5); Marches (4); Care and Handling of Arms and Equipment (11); Small Arms Firing (14); Personal Hygiene, First Aid and Sanitation (4); Interior Guard Duty (5); Minor Tactics (6); Moral (2); Physical Training, General (17). Total, 108 hours.

SOPHOMORE COURSE:

Military Courtesy and Discipline (2); Drill, close and extended order (26); Ceremonies (5); Marches (4); Bayonet (4); Hand Grenade (4); Care and Handling of Arms and Equipment (11); Small Arms Firing (14); Personal Hygiene, First Aid and Sanitation (2); Interior Guard Duty (2); Minor Tactics (6); Orders and Messages (3); Field Engineering (6); Liaison for all Arms (2); Topography and Map Reading (3); Signalling (2); Target Designation (4); Physical Training, General (10). Total, 108 hours.

JUNIOR COURSE:

Minor Tactics (32); Liaison for all Arms (2); Topography (16); Field Engineering (12); Law (10); Military Policy of U. S. (4); Drill, infantry and in special arms, as instructors (36); Ceremonies (5); Marches (4); Care and Handling of Arms and Equipment (10); Small Arms Firing (14); Personal Hygiene, First Aid and Sanitation (5); Interior Guard Duty (5); Orders and Messages (2); Military Courtesy and Discipline (4); General (18); Physical Training. Total, 180 hours.

Senior Course:

Minor Tactics (22); Topography (15); Field Engineering (8); Company Administration (5); Military Policy, History, Economics (6); Military Law (5); Hippology (4); Drill, tactical exercises and musketry (30); Ceremonies (5); Marching (4); Care and Handling of Arms and Equipment (10); Small Arms Firing (14); Personal Hygiene, First Aid and Sanitation (3); Interior Guard Duty (5); Orders and Messages (3); Tactical Walks (16); Military History (10); Physical Training, General (15). Total, 180 hours.

DEPARTMENT OF MUSIC

Paul John Weaver, A.A.G.O., *Professor of Music.*

3-4-5. Appreciation of Music. An illustrated course primarily for students who have had little or no musical training. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Weaver.

10-11-12. History of Music. A study of the historical development of music. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Weaver.

6. Sight Singing and Ear Training. *Half Course. Spring Quarter.* Professor Weaver.

20. Harmony. A beginners course in elementary harmony. *Half Course. Fall Quarter.* Professor Weaver.

DEPARTMENT OF PHILOSOPHY

Henry Horace Williams, A.M., B.D., *Professor of Philosophy.*

Courses for Undergraduates

10-11-12. Logic: the study of logic in life; lectures, with textbooks. Junior and Senior elective. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Williams.

13-14-15. Ethics: criticism and discussions. Junior and Senior elective. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Williams.

16-17-18. Philosophy: a study of the forces that shape life; lectures; theses. Junior and Senior elective. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Williams.

19-20-21. A companion Course to Philosophy 16-17-18. The aim of the course is to sketch the forces masterful in modern life. Junior and Senior elective. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor WILLIAMS.

Courses for Graduates

Course 19-20-21, and in addition:

22-23-24. Epistemology: a study of the Critical Philosophy; lectures, theses. First term: Prolegomena and Practical Reason, and the work that prepared the way for Kant. Second term: *Kritik der Reinen Vernunft. One and a half Courses. Fall, Winter and Spring Quarters.* Professor WILLIAMS.

DEPARTMENT OF PHYSICS

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*
HARRY MORRISON SHARP, A.B., *Instructor in Physics.*
NATHAN MOBLEY, *Assistant in Physics.*
JOSIAH SMITH BABB, *Assistant in Physics.*
WILLIAM FRANCIS ALLSTON, *Assistant in Physics.*
WILLIAM EARLE OVERCASH, *Assistant in Physics.*
ONIS GRAY FORNEY, *Assistant in Physics.*
RALPH VAN LANDINGHAM, JR., *Assistant in Physics.*

Courses for Undergraduates

1. General Physics: Mechanics of solids, liquids and gases: Sound and Heat. Lectures, with text-book (Kimball's College Physics): problems: laboratory work. Sophomore, Junior and Senior elective. Prerequisite, Mathematics 1-2. *Fall or Winter Quarters.* Professor PATTERSON, Mr. SHARP and Assistants.

2. General Physics: Light, Electricity and Magnetism. Lectures with text (Kimball's College Physics): Laboratory work. Sophomore, Junior and Senior elective. Prerequisite, Mathematics 1-2. *Winter or Spring Quarters.* Professor PATTERSON, Mr. SHARP and Assistants.

3-4. Electricity and Magnetism: an advanced course, of a general nature, but especially adapted to the needs of medical students. Lectures, text-book, laboratory work. Junior and Senior elective. *Fall and Winter Quarters.* Professor PATTERSON.

5. Heat and Thermodynamics. Junior and Senior elective. Prerequisite, Physics 1-2. *Winter Quarter.* Mr. Sharp.

7. Modern Electrical Theory: the electron theory, electrolysis, conduction of electricity through gases, electrical nature of matter, radio-activity: lectures, recitations and laboratory work. Junior and Senior elective. Prerequisite, Physics 1-2. *Spring Quarter.* Professor Patterson.

9. Optics. A treatment of the fundamental principles of geometrical and physical optics. Lectures and laboratory work. Prerequisite, Physics 1-2. Junior and Senior elective. *Spring Quarter.* Mr. Sharp.

11. Descriptive Astronomy: a general course; lectures and recitations with use of lantern slides, telescope, etc. Junior and Senior elective. Prerequisite, Physics 1-2. *Fall Quarter.* Professor Patterson.

Courses for Graduates

Courses 5, 7 and 9.

DEPARTMENT OF PSYCHOLOGY

John Frederick Dashiell, Ph.D., *Associate Professor of Psychology.*

Courses for Undergraduates

1. Introductory Psychology. A scientific study of human nature from the point of view of a modified behaviorism. Man is studied as a living organism showing original and acquired tendencies that are subject to increasingly efficient conscious self-control leading up to the development of personality. Texts, lectures and demonstrations. Sophomore, Junior and Senior elective. *Fall or Spring Quarter.* Professor Dashiell.

10-11-12. Experimental Psychology. An introduction to the methods of the subject. A limited number of standard laboratory experiments are first undertaken, with emphasis upon precision in technique and in results. Later, original research is encouraged; simple problems may be selected with reference to students' special interests. May be begun any quarter and pursued one,

two, or three quarters. Laboratory work. Sophomore, Junior and Senior elective. Prerequisite, Psychology 1. *One and a half Courses. All Quarters.* Professor DASHIELL.

Laboratory fee, $2.00 a quarter.

20. Genetic Psychology (Phylogenetic). Development of mind in the animal. Study of behavior as analyzable into tropisms, reflexes, instincts, habits, learning capacities, etc. Comparisons between different phyla of animals and between animals and man. Texts, lectures, and experiments or observations. Junior and Senior elective. Prerequisite, Psychology 1. *Half Course. Fall Quarter.* Professor DASHIELL.

21. Genetic Psychology (Ontogenetic). Development of mind in the child. Original motor and mental tendencies and their organization through development and training. Special attention to the development of instincts into conscious interests, and to the maturing of intellectual powers. Methods of measuring intelligence will be studied. Texts, lectures and experiments or observations. Junior and Senior elective. Prerequisite, Psychology 1. *Half Course. Winter Quarter.* Professor DASHIELL.

30. Social Psychology. A brief survey of the subject from two different points of view: analysis of the social factors in individual mentality, as in the development of the Self, and analysis of the psychological factors involved in group phenomena. Attention also to be given to individual differences, race psychology, etc. Readings and lectures. Junior and Senior elective. Prerequisite, Psychology 1. *Half Course. Winter Quarter.* Professor DASHIELL.

45. Abnormal Psychology. An outline study of main types of mental abnormality. To include: mental deficiency, typical neuroses, typical insanities, minor abnormalities in daily life, psychoanalytic method, theories of the subconscious, the "occult," etc. Special needs of medical students to be kept in mind. Readings and discussions. Junior and Senior elective. Prerequisite, Psychology 1. *Winter Quarter.* Professor DASHIELL.

Courses for Graduates

Courses 12, 20, 21 and 45 (with special work in each), and further:

50. Psychology of Training. A review of the outstanding experimental work on this line, with the aim of getting an accurate and scientific notion of the psychology of improvement

or learning, with possibilities of application to various fields of applied psychology. Readings of monograph literature and discussions. *Half or Full Course. Fall, Winter, or Spring Quarter.* Professor Dashiell.

(For courses in Educational Psychology, the student should consult courses 40, 41, 42, in Department of Education.)

DEPARTMENT OF ROMANCE LANGUAGES

William Morton Dey, Ph.D., *Professor of the Romance Languages and Literatures.*

Oliver Towles, Ph.D., *Associate Professor of Romance Languages.*

*Sturgis Elleno Leavitt, Ph.D., *Associate Professor of Romance Languages.*

Herman Henry Staab, M.A., *Assistant Professor of Romance Languages.*

Chesley Martin Hutchings, A.M., *Instructor in Romance Languages.*

Charles Isadore Silin, *Instructor in French.*

Courses for Undergraduates

French

1-2. Elementary Course. Essentials of French Grammar. Special attention given to pronunciation. It is aimed to make this course as practical as possible, with much oral work. This course may be counted for credit towards the degree by those only who have fulfilled the entrance requirement in two other foreign languages, and provided it is followed by French 3-4. *Double Course. Fall and Winter, or Winter and Spring Quarters.* Course 2 will also be given in the fall of 1920. Professors Towles (Chairman) and Staab and Messrs. Hutchings and Silin.

3-4. Continuation of Course 1-2. Reading of modern French literature and newspapers, frequent composition and dictation. Freshman or Sophomore elective. *Double Course. Fall and Winter, or Winter and Spring Quarters.* Professors Towles (Chairman) and Staab and Mtssrs. Hutchings and Silin.

5. Advanced Course: studies in reading and writing French. French phonetics. Reading of representative literature of the

*Absent on leave.

Nineteenth Century and of newspapers, with much collateral reading. Sophomore, Junior and Senior elective. Prerequisite, French 3-4. *Fall Quarter.* Professor DEY.

6. Continuation of French 5. Masterpieces of French literature in the Nineteenth Century, with much collateral reading and oral work. Sophomore, Junior and Senior elective. Prerequisite, French 5. *Spring Quarter.* Professor DEY.

7-8. French Conversation and Composition. The object of this course is to provide its members with the opportunity of acquiring facility in the use of the spoken language. Topics of general interest dicussed; practice also in the writing of French. Junior and Senior elective. Prerequisite, French 3-4. *Double Course. Fall and Winter Quarters.* Professor TOWLES.

11-12. French Literature in the Seventeenth Century. Classicism: Molière, Corneille, Racine, etc. Lectures, reading, reports. Junior and Senior elective. Prerequisite, French 6. *Double Course. Two Quarters.* Professor TOWLES.

13-14. French Literature in the Eighteenth Century. Rousseau, Voltaire, Montesquien, Lesage, Marivaux, Beaumarchais, etc. Lectures, reading, reports. Junior and Senior elective. Prerequisite, French 6. *Double Course. Two Quarters.* (To be omitted in 1920-1921.) Professor DEY.

15-16. The French Romantic Movement. Lamartine, Hugo, Vigny, Musset, etc. Later literary movements are also touched upon. Lectures, reading reports. Junior and Senior elective. Prerequisite, French 6. *Double Course. Winter and Spring Quarters.* Professor DEY.

17-18. The French Drama. A study of the development of the drama in France. Lectures, reading, reports. Junior and Senior elective. *Two Quarters.* Professor DEY.

No student is permitted to take French 1-2, and Spanish 1-2 at the same time.

A certificate is granted to a student who has completed with credit any four courses exclusive of Course 1-2.

Spanish

1-2. Elementary Course. Essentials of Spanish grammar. Special attention given to pronunciation. Reading of selected texts, with much oral drill. This course may be counted for

credit towards the degree by those only who have fulfilled the entrance requirement in two other foreign languages, and provided it is followed by Spanish 3-4. *Double Course. Fall and Winter, or Winter and Spring Quarters.* Professor Leavitt.

3-4. Continuation of Course 1-2. Wide reading of modern Spanish authors. Sophomore, Junior and Senior elective. Prerequisite, Spanish 1-2. *Double Course. Fall and Winter Quarters.* Professor Leavitt.

5. Practical Spanish. The object of this course is to give the student a wide vocabulary in modern Spanish. Special attention will be paid to South America: selections from South American history, newspaper and magazine articles dealing with the life and customs of the country will be read and some of its representative literature studied. Junior and Senior elective. Prerequisite, Spanish 3-4. *Spring Quarter.* Professor Leavitt.

No student is permitted to take Spanish 1-2, and French 1-2 at the same time.

Italian

1-2. Elementary Course. Grammar, pronunciation, oral and written exercises, translation and reading at sight. Junior and Senior elective. Prerequisite, French 3-4. *Double Course. Two Quarters.* Professor Towles.

Courses for Graduates

French

Courses 11-12, 13-14, 15-16, 17-18, and in addition:

23-24. Old French. Reading of the oldest texts: La Chanson de Roland; Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology. Prerequisite, French 5, a knowledge of Latin equivalent to courses 1-2 and 3 of the Latin Department, and a reading knowledge of German. *Two Quarters.* Professor Towles.

25-26. Provencal: a study of the ancient language and literature of Provence. Prerequisite, French 23-24. *Two Quarters.* Professor Dey.

DEPARTMENT OF RURAL ECONOMICS AND SOCIOLOGY

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., *Kenan Professor of Rural Economics and Sociology.*
SAMUEL HUNTINGTON HOBBS, JR., A.M., *Assistant Professor of Rural Economics and Sociology.*

Courses for Undergraduates

1-2-3. Formal Course in Rural Economics: as a background for defining and interpreting the economic problems of country life in North Carolina; *Carver's Principles of Rural Economics.* References: Nourse's *Readings in Agricultural Economics,* Carver's *Selected Readings in Rural Economics.* Junior and Senior elective. *Triple Course. Fall, Winter and Spring Quarters.* Professor S. H. HOBBS.

5-6-7. Constructive Studies in Rural Sociology; Gillette's *Constructive Rural Sociology.* References: Wolfe's *Readings in Social Problems,* Vogt's *Introduction to Rural Sociology,* Fiske's *Challenge of the Country,* Wilson's *Evolution of the Country Community, Sociology of Rural Life,* Proceedings of the American Sociological Society, Vol. IX, 1916. Junior and Senior elective. *Triple Course. Fall, Winter and Spring Quarters.* Professor BRANSON.

9-10-11. Laboratory Course in Rural Economics and Sociology; home-county and home-state studies, research work and surveys. This course parallels and accompanies courses 1-2-3 and 5-6-7, Junior and Senior elective. *Triple Course. Fall, Winter and Spring Quarters.* Professor BRANSON.

Course for Graduates

3. Laboratory Courses in Rural Economics and Sociology; home-county and home-state studies, research work, and surveys. Professor BRANSON.

The department headquarters are a clearing house for economic and social information about the State, and are open to students of all classes and departments during the morning hours of every day, and on Monday, Wednesday, and Friday afternoons, 3:30 to 6:00 o'clock.

DEPARTMENT OF ZOOLOGY

Henry VanPeters Wilson, Ph. D., *Kenan Professor of Zoology.*
William Banks Anderson, *Assistant in Zoology.*
Joseph Lindsay Cook, *Assistant in Zoology.*
Calvert Rogers Toy, *Assistant in Zoology.*
Allen Alexander Miner, *Assistant in Zoology.*

(For description of Biological Laboratories see page 41.)

1. Elements of Zoology: an introductory course giving an outline of the structure, physiological behavior and classification of animals. Lectures with laboratory work. Freshman, Sophomore, Junior and Senior elective. *Winter Quarter.* Professor Wilson, Messrs. Anderson and Toy.

Laboratory fee, $5.00.

2. Comparative Anatomy: dissection of types, chiefly vertebrates with some invertebrates. Laboratory work with occasional lectures. Junior and Senior elective. *Spring Quarter.* Professor Wilson, Messrs. Anderson and Toy.

Laboratory fee, $5.00.

3. Generalization and Theories of Biology: some of the facts and conclusions in the fields of evolution, heredity and individual development. Lectures. Junior and Senior elective. Prerequisite, Zoology 1. *Half Course. Fall Quarter.* Professor Wilson.

4. Vertebrate Embryology: early stages in embryology of ascaris, starfish: segmentation and formation of germ layers in frog teleost: germ layers and development of characteristic vertebrate organs in chick: salient features in the development of mammals (rabbit, pig): fundamentals of microscopic technique. Laboratory work with occasional lectures. Junior and Senior elective. *Winter Quarter.* Professor Wilson.

Laboratory fee, $5.00.

5-6-7. Morphology and Classification of the Invertebrates: dissection and microscopic study of types of the chief orders, with some consideration of life-histories: systematic diagnosis. Laboratory work with occasional lectures. Junior and Senior elective. *One and a half Courses. Fall, Winter and Spring Quarters.* Professor Wilson.

Laboratory fee, $3.00 a quarter.

8. Comparative Histology: laboratory course with emphasis laid on technique. Junior and Senior elective. Prerequisites, Zoology 1, 2, 4. *Fall Quarter.* Professor WILSON.

Laboratory fee, $5.00.

Courses for Graduates

Courses 3, 4, 5-6-7, and in addition:

9-10-11. Embryology and Regeneration: in the vertebrates and lower metazoa. *Triple Course. Fall, Winter and Spring Quarters.* Professor WILSON.

Laboratory fee, $5.00 a quarter.

PART FIVE

COMMENCEMENT

LIST OF STUDENTS

ALUMNI ASSOCIATIONS

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ONE HUNDRED AND TWENTY-FOURTH COMMENCEMENT

Sunday, June 15

BACCALAUREATE SERMON

The Reverend JOHN E. WHITE

SERMON BEFORE THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Reverend W. D. Moss

Monday, June 16

SENIOR SPEAKERS

R. F. MOSELEY
NATHAN GREEN GOODING
WILLIAM ENOCH PRICE
LUTHER HARTWELL HODGES

Tuesday, June 17

ALUMNI EXERCISES

Reunions of the Classes of 1859, 1869, 1879, 1889, 1894, 1899, 1904, 1909, 1914, 1918

THE DEBATE BY REPRESENTATIVES FROM THE DIALECTIC AND PHILANTHROPIC LIITERARY SOCIETIES

Dialectic	*Philanthropic*
Samuel Hood Willis	Lawrence Wooten Jarman
Robert Bruce Gwynn	Thomas Skinner Kittrell

Wednesday, June 18

THE COMMENCEMENT ADDRESS

The Honorable Franklin K. Lane

DEGREES IN COURSE

Bachelors of Arts

William Parker Andrews
John Lee Aycock
Roy Wingate Boling
Thomas Preston Brinn
Samuel James Calvert
Harvey James Campbell
*†John Nathaniel Couch
Alfred Reese Crisp
William Reynolds Cuthbertson
†Charles Walker Davis
Harry Towles Davis
Irvin Webb Durham, Jr.
William Clement Eaton
Walter Connor Feimster, Jr.
*James Skinner Ficklen
John Wesley Foster
John Mendinghall Gibson
Thomas Guthrie Gibson
Caroline Goforth
Otho William Hale
Cary Lanier Harrington
Harry Forest Henson, Jr.
Luther Hartwell Hodges
Paul Loraine Hofler
William Howard Hooker
William Fred Hunter
Elizabeth Atkinson Lay
Edwin Samuel Lindsey
Peter Francisco Lynch
Virginia Hendon McFadyen
Reid Atwater Maynard
Eddy Schmidt Merritt
Forrest Glenwood Miles
Kenneth Franklin Mountcastle
Irvin Ferdinand Parker
John William Gordon Powell
William Enoch Price
Jennings Jefferson Rhyne
Theodore Edward Rondthaler
William Fleming Stokes
Louis Grady Travis
Curtis Linville Vogler
Charles Bruce Webb
Hilton Gwaltney West
Walter Harold Williamson
George Alexander Younce

Bachelors of Science in Chemical Engineering

Edmund Olin Cummings
Josiah Stockton Murray
William Banks Richardson
†James Pinckney Sawyer
Reuben Holmes Sawyer
Harry Gillespie Smith

Bachelor of Science in Civil Engineering

†William Fred Morrison

Bachelor of Science in Soil Investigation

Jefferson Carney Bynum

---

*Absent by permission.
†As of 1918.

Bachelors of Science in Medicine

*†Duma Carroll Arnold
Maurice Edward Baker
Donnell Borden Cobb
Fred Robert Farthing
Kenneth Baxter Geddie
Waite Leonidas Lambert
Stephen Cannon Nowell, Jr.
Fred Ross Robbins
Henry Alvord Scott
Anderson Jones Smith
Shahane Richardson Taylor
William Gilliam Wilson, Jr.

Bachelors of Laws

Norman Addison Boren
Opal Ione Tillman Emry
Raymond Craft Maxwell
Harris Philip Newman

Bachelors of Arts and Laws

William Bryant Austin
Albert Oettinger

Graduate in Pharmacy

George Lanneau Nye

Pharmaceutical Chemist

Aros Coke Cecil

Masters of Arts

Elmer Levy Daughtry
*Curren Monroe Farmer
Herbert Milton Hopkins
*Yasushiro Naito
Minnie Shepherd Sparrow
James Ralph Weaver
James Vivian Whitfield

Master of Science

*Ira Wellborn Smithey

Doctor of Philosophy

James Strong Moffatt, Jr.
‡‡James Williams Scott

HONORARY DEGREES

Doctor of Laws

Franklin K. Lane

*Absent by permission.
†As of 1918.
‡‡Deceased.

MEDALS, PRIZES, AND FELLOWSHIPS

The William Cain Prize in Mathematics: W. F. Hunter.
The Eben Alexander Prize in Greek: W. R. Berryhill.
The Early English Text Society Prize: Louisa P. Reid and Minnie S. Sparrow.
The Worth Prize in Philosophy: T. C. Wolfe.
The Callaghan Scholarship Prize in Law: Albert Oettinger.
The Ledoux Fellowship in Chemistry: N. A. Reasoner.
The Ben Smith Preston Cup: W. D. Carmichael, Jr.
The Julian S. Carr Fellowship: R. B. Gwynn and H. B. Simpson.
The du Pont Fellowship: D. H. Jackson.
The Burdick Prize in Journalism: Moses Rountree.
The Bingham Prize: R. B. Gwynn.
The Mangum Medal: W. E. Price.

Elected to membership in *Phi Beta Kappa Society*, 1919: H. S. Everett, C. P. Spruill, Jr., R. B. Gwynn, R. H. Souther, C. R. Toy, E. E. White.

CERTIFICATES

Botany: C. L. Vogler.
History: R. W. Boling.
Romance Languages: W. H. Hooker.
Honors in Language and Literature: Edwin Samuel Lindsey, William Enoch Price.

STUDENTS (1919-1920)

GRADUATES

Andrews, Troy Monroe, Chapel Hill.
A.B., 1914, S.M., 1917. Chemistry, Mathematics, Physics.

Aycock, John Lee, Raleigh.
A.B., 1919. English, Philosophy.

Bond, Lester Everett, Chapel Hill.
A.B., 1915, Maryville College. Chemistry, Zoology, Physics.

Bynum, Jefferson Courtney, Chapel Hill.
S.B., V, 1919. Geology, Chemistry.

Coates, Albert M., Smithfield.
A.B., 1918. English, Philosophy, Rural Economics.

Couch, John Nathaniel, Chapel Hill.
A.B., 1919 (as of 1918). Botany, Zoology.

Davis, Harry Towles, Beauford.
A.B., 1919. Geology, Chemistry, Zoology.

Davis, James Blaine, Chapel Hill.
B.A., 1916, Wake Forest College. English.

Eaton, William Clement, Winston-Salem.
A.B., 1919. English, Philosophy, Greek.

Giles, Isaac Vilas, Marion.
S.B.I., 1918. Chemistry, Geology.

Harrison, Thomas Perrin, Jr., Raleigh.
A.B., 1918. English.

Harward, George Norrell, Durham.
B.A., 1913, Wake Forest College; M.A., 1916, Uni. of Pa.; B.D., 1916, Crozer Theological Seminary. Rural Economics, Education.

Hoffman, Eleanor, Cambridge, Mass.
A.B., 1917, Radcliffe College. Botany.

Holland, Joseph Irvin, Gastonia.
A.B. and A.M., 1918, Wofford College. Chemistry, Mathematics.

Huffman, Ewart William Gladstone, Hickory.
A.B., 1919, Lenoir College. English.

Hunter, William Fred, Pittsboro.
A.B., 1919. Civil Engineering, Mathematics.

Jackson, David Haughton, Guilford.
B.S., 1918, Guilford College. Chemistry, Geology, Mathematics.

Jenkins, Sanford Swindell, Chapel Hill.
A.B., 1915, Trinity College. Chemistry.

Kita, Saichiro, Tokyo, Japan.
A.B., 1917. Waseda University. Economics, Rural Economics.

Lay, Elizabeth Atkinson, Beaufort.
A.B., 1919. English, Philosophy.

Lindsey, Edwin Samuel, Tryon.
A.B., 1919. English, Greek, Philosophy.

Linker, Joseph Burton, Salisbury.
A.B., 1918. Mathematics, Electrical Engineering, Civil Engineering.

MacMillan, William Dougald, 3rd., Wilmington.
A.B., 1918. English.

Marsh, Herman Earl, Marshville.
A.B., 1918. Geology, Chemistry, Zoology.

Morrison, Fred Wilson, Chapel Hill.
A.B. and A.M., 1913. Education.

Neiman, Ernest, Charlotte.
A.B., 1918. Chemistry.

Perry, Margaret Gray, Wilkesboro.
A.B., 1903, N. C. College for Women. Latin, History, Spanish.

Price, William Enoch, Madison.
A.B., 1919. English, History.

Rondthaler, Theodore, Winston-Salem.
A.B., 1919. English, Greek, Philosophy.

Smith, Samuel Clement, Chapel Hill.
A.B., 1918, Guilford College. Chemistry.

Smithey, Ira Wellborn, Wilkesboro.
S.B., 1918, S.M., 1919. Chemistry, Physics.

Sparrow, Minnie Shepherd, Chapel Hill.
A.M., 1919. English.

Spitz, Leon, Raleigh.
M.A., 1917, Columbia University. English, German.

Stuckey, Jasper Leonidas, Kenly.
A.B., 1918. Geology, Chemistry.

Taketomi, Yasuo, Hakodate, Japan.
A.B., 1919, Waseda University. Economics, History.

Taylor, Rosser Howard, Castalia.
B.A., 1916, Wake Forest College. History, Economics, English.

West, Hilton Gwaltney, Greensboro.
A.B., 1919. English, Philosophy, Greek.

Womble, Frances, Greensboro.
Graduate, 1901, N. C. College for Women. English.

Wunsch, William Robert, Chapel Hill.
A.B., 1918. Philosophy.

Yoder, Monroe Craig, Hickory.
A.B., 1917, Lenoir College. Chemistry.

Senior Class

Allen, Sidney Broaddus, A.B., Weldon.
Anderson, William Banks, A.B., Haw River.
Andrews, Ola Blanche, A.B., Chapel Hill.
Andrews, William Henry, Jr., A.B., Speed.
Babb, Josiah Smith, A.B., Hertford.
Bain, Charles Wortley, A.B., Chapel Hill.
Balentine, Edwin Charlton, S.B. II, Salisbury.
Black, Hugh Clifton, A.B., Greenville, S. C.
Blount, William Augustus, A.B., Washington.
Bolick, Clarence Pinkney, S.B. II, Morganton.
Brawley, Thomas Johnson, A.B., Gastonia.
Bristol, Henry Cowles, A.B., Statesville.
Bryant, Leo Heartt, A.B., Durham.
Burton, Chester Winthrop, S.B. II, Pomona.
Butt, William Horace, A.B., Chapel Hill.
Carroll, Duncan McColl, S.B. I, Bennettsville, S. C.
Cone, Benjamin, A.B., Greensboro.
Cordon, Edward Broad, S.B. I, Waynesboro, Va.
Crawford, George Dewey, A.B., Cornelia, Ga.
Dale, Grover Cleveland, A.B., Seven Springs.
Daniel, Donald Snead, A.B., Weldon.
Daniels, Worth Bagley, A.B., Washington, D. C.
Dowd, James Edward, A.B., Charlotte.
Everett, Houston Spencer, A.B., Rockingham.
Faucette, Holt Pebbin, S.B. V, Grimesland.
Freeman, Rachel, A.B., Dobson.
Gooding, Nathan Green, A.B., New Bern.
Graham, Theodore Alexander, A.B., Mount Ulla.
Gwynn, Robert Bruce, A.B., Leaksville.
Harvey, Leo Heartt, A.B., Kinston.
Hazlehurst, Charles Mortimer, S.B., II, Wilmington.
Hill, Michael Arendell, Jr., A.B., Beaufort.
Hoyle, Columbus Alonzo, A.B., Fallston.
Jarman, Lawrence Wooten, A.B., Seven Springs.

Jenkins, Edgar Bryan, A.B.,	Nashville.
Jones, Robert Duval, Jr., A.B.,	New Bern.
Joyner, Claude Reuben, A.B.,	Yadvinville.
Justice, William Shipp, A.B.,	Richmond, Va.
Kirkman, William Robert, A.B.,	Greensboro.
Kittrell, Thomas Skinner, A.B.,	Henderson.
Latshaw, Harry Franklin, A.B. in Ed.,	Chapel Hill.
Latshaw, Sylvia L. Arrowood, A.B. in Ed.,	Chapel Hill.
Lee, Samuel Bayard, A.B.,	Four Oaks.
Lee, Sanford Martin, A.B.,	Newton Grove.
Lewis, William Figures, A.B.,	Kinston.
Liipfert, Francis Julius, Jr., A.B.,	Winston-Salem.
Lynch, Percy Philip, Jr., S.B. II,	Raleigh.
McClamrock, Roland Prince, A.B.,	Greensboro.
McLaughlin, John Brown, A.B.,	Charlotte.
Mann, George Weaver, A.B.,	Chapel Hill.
Meares, Kate deRosset, A.B.,	Columbia, S. C.
Merritt, William Edward, S.B. II,	Mount Airy.
Michael, Olin Bain, A.B.,	Lexington.
Mobley, Nathan, A.B.,	Charlotte.
Moore, James Samuel, A.B.,	Bethel.
Moore, Oliver Earl, A.B.,	Bennettsville, S. C.
Morris, George Dillon, A.B.,	Goldsboro.
Neal, William Webb, S.B. II,	Louisburg.
Nichols, William James, A.B.,	Raleigh.
Poindexter, Will Nelson, Jr., A.B.,	Walkertown.
Poole, Clifton Addison, A.B.,	Jackson Springs.
Pritchard, Vera, A.B.,	Chapel Hill.
Ramsay, Claude Clinton, A.B.,	Salisbury.
Rountree, Moses, A.B.,	Oxford.
Sexton, John William, A.B.,	Whitakers.
Sherrill, Mildred Irene, A.B.,	Newton.
Simms, Benjamin Arnold, S.B. V.,	Talladega, Ala.
Simpson, Henry Belk, A.B.,	Matthews.
Sipe, Bryan Webb, A.B.,	Cherryville.
Smith, Robert Owen, A.B.,	Liberty.
Souther, Roy Hobart, S.B. I,	Greensboro.
Spainhour, Joseph Felix, Jr., A.B.,	Morganton.
Spaugh, Rufus Arthur, A.B.,	Winston-Salem.
Spencer, Earl Montgomery, A.B.,	Morganton.
Spruill, Corydon Perry, Jr., A.B.,	Raleigh.
Spry, Fletcher Humphries, S.B. I,	Back Bay, Va.
Stevens, Henry David, A.B.,	Asheville.

Stone, Marvin Lee, A.B.,	Kittrell.
Taylor, Cary Buxton, S.B. III,	Oxford.
Taylor, Elizabeth Murphy, A.B.,	Morganton.
Taylor, Haywood Maurice, S.B. I,	Tarboro.
Teague, Everett Simon, A.B.,	Taylorsville.
Terry, Harvey Stansill, A.B.,	Rockingham.
Topping, Daniel Dewey, A.B.,	Pantego.
Towler, Joseph Barber, A.B.,	Raleigh.
Toy, Calvert Rogers, A.B.,	Chapel Hill.
Travis, Richard Stanford, Jr., A.B.,	Weldon.
Umstead, Luther Wiley, A.B.,	Stem.
Venable, Louise Manning, A.B.,	Chapel Hill.
Walker, Carl Hampton, A.B.,	Coinjock.
Washburn, John Pipkin, A.B.,	Lillington.
White, Edwin Emerson, A.B.,	Reisterstown, Md.
White, Woodford, S.B. I,	Newton.
Williams, Ralph Devereaux, A.B.,	Henderson.
Willis, Leroy Berkhead, S.B. Com.,	New Bern.
Willis, Samuel Hood, A.B.,	High Point.
Wilson, Ralph Harper, A.B.,	Wilsons Mills.
Wolfe, Thomas Clayton, A.B.,	Asheville.
Woodward, Jake Garrett, A.B.,	Democrat.
Yokley, John Bruce, S.B. III,	Mount Airy.

Junior Class

Alexander, Maxie Miller, A.B.,	Creswell.
Ashby, Clarence Linden Garnett, A.B.-LL.B.,	Raleigh.
Austin, Sheldon Clyde, S.B. III,	Richfield.
Bacon, Frank Robbins, S.B. III,	Newton.
Bailey, James Dobbins, S.B. Com.,	Kenly.
Banzet, Julius Edmond, Jr., A.B.-LL.B.,	Ridgeway.
Beers, Charles Dale, A.B.,	Asheville.
Bell, Frank Durham, A.B.,	Tuxedo.
Berryhill, Walter Reece, A.B.,	Charlotte.
Blair, Clarence Dorian, S.B., II,	Greensboro.
Blythe, William LeGette, A.B.,	Huntersville.
Bobbitt, William Haywood, A.B.,	Statesville.
Boyce, Henry Spurgeon, A.B.,	Tyner.
Boyd, Charles Theodore, A.B.,	Gastonia.
Broach, Jamie Bunnell, S.B. III,	Hurdle Mills.
Brooks, Frederick Philips, S.B. I,	Kinston.
Brown, Bryant Council, A.B.,	Wilmington.
Brown, Paul High, A.B.-LL.B.,	Chadbourn.

Bryan, Charles Junius, S.B. II,	Wilson, Pa.
Bullock, Augustus Rufus, A.B.,	Creedmor
Carmichael, William Donald, Jr., S.B. Com.,	Durham.
Carter, Charles Clarence, S.B. I,	Morganton.
Clawson, James Pool, S.B. II,	Beaufort.
Cobb, Mary Louisa, A.B.,	Chapel Hill.
Cochran, Frederick Cline, S.B. I,	Charlotte.
Coker, Richard Gay, A.B.,	Hartsville, S. C.
Cook, Joseph Lindsay, S.B. IV,	Winston-Salem.
Cooper, Henry Burwell, A.B.,	Henderson.
Cooper, Lenox Gore, A.B.,	Wilmington.
Cowan, John Columbus, A.B.,	Rutherfordton.
Davis, Robert Mayo, A.B.,	Tarboro.
Deitz, Robert Odus, S.B. I,	Statesville.
Dorsett, Robert Clyde, A.B.,	Siler City.
Edmundson, Haywood, A.B.,	Raleigh.
Ervin, Joseph Wilson, A.B.,	Morganton.
Erwin, Jesse Harper, Jr., S.B. Com.,	Durham.
Evans, Erasmus Hervey, A.B.,	Laurinburg.
Fearrington, James C. Pass, A.B.,	Winston-Salem.
Fields, Daniel Allen, S.B. IV,	Laurinburg.
Foote, William Feimster, S.B. II,	Statesville.
Forney, Onis Gray, S.B. Com.,	Greensboro.
Fowler, Charles Worth, S.B. V,	Greensboro.
Fulton, Howard Edward, A.B.,	Winston-Salem.
Gant, Allen Erwin, S.B. Com.,	Burlington.
Gardner, Wade Anderson, A.B.-LL.B.,	Wilson.
Grant, Daniel Lindsey, A.B.,	Snead's Ferry.
Gregory, Lee Overman, A.B.-LL.B.,	Salisbury.
Griffin, Arthur Gwynn A.B.,	Marshville.
Griffin, Harold Cowan, A.B.,	Shelby.
Grimes, William, A.B.,	Raleigh.
Guard, John Worth, S.B. I,	Coinjock.
Hagood, William Ward, Jr., S.B. Com.,	Charlotte.
Hanby, Howard Alexander, S.B. Com.,	Wilmington.
Harden, Boyd, A.B.,	Burlington.
Hargett, John McKenzie, A.B.,	Trenton.
Harrell, William Burrus, S.B. Com.,	Moyock.
Harris, Charles Robert, S.B. I,	Arden.
Hayes, Nathaniel Parkinson, A.B.,	Wise.
Heffner, Hubert Crouse, A.B.,	Maiden.
Heffner, Ray Lorenzo, A.B.,	Maiden.
Hester, Waverley Mauldin, S.B. Com.,	Tryon.
Hinson, Thera Earl, S.B., II,	Monroe.

Hofler, Ralph Hayes, S.B. IV,	Gatesville.
Holt, Edwin Michael, A.B.,	Duke.
Horner, Junius Moore, Jr., A.B.,	Asheville.
Hudson, Willard Peyton, A.B.,	Sparta.
Hughes, Adeline Edmonds, A.B.,	Henderson.
Hunter, Rufus Avera, A.B.,	Raleigh.
Jarvis, Parkhill Odell, A.B.,	New Bern.
Kerr, John Hosea, Jr., A.B.,	Warrenton.
Kincaid, Haywood Gordon, A.B.,	Gastonia.
Kistler, Charles Edmund, S.B. Com.,	Morganton.
Ledford, Robert Newton, A.B.,	Hot Springs.
Lenoir, Rufus Theodore, Jr., S.B. III,	Yadkin Valley.
Leonard, Colvin Theodore, A.B.,	Greensboro.
Lineberger, Archibald Caleb, Jr., A.B.,	Belmont.
Lohr, Burgin Edison, A.B.,	Lincolnton.
Lowe, Frank Robbins, A.B.,	Winston-Salem.
McKnight, Thomas Mortimer, A.B.,	Mooresville.
MacMillan, Louis deRosset, S. B. Com.,	Wilmington.
Martin, Elbert Hoke, A.B.,	Charlotte.
Martin, Hunter Evander, A.B.,	Fayetteville.
Martin, Paul Todd, S.B. I,	Salisbury.
Massenburg, James Speed, A.B.,	Louisburg.
Milton, Leon Vincent, S.B. II,	Greensboro.
Miner, Allen Alexander, S.B. IV,	Waynesboro, Ga.
Moody, Ralph Manning, A.B.-LL.B.,	Murphy.
Moore, Thomas Owen, A.B.,	New Bern.
Moore, William David, S.B. IV,	Raeford.
Morris, John De, S.B. II,	Roxboro.
Naiman, Barnette, S.B. I,	Kinston.
Nelson, Louis Mann, S.B. I,	Florence, S. C.
Noble, Marcus C. Stephens, Jr., A.B.,	Chapel Hill.
Noe, Kenneth Barnes, S.B. III,	Beaufort.
O'Neal, Harry Edward, A.B.,	Scranton.
Ogburn, Sihon Cicero, Jr., S.B. I,	Winston-Salem.
Owens, Adolphus Bingham, S.B. I,	Charlotte.
Pace, Thomas Lilley, A.B.,	Oxford.
Patrick, Bailey, A.B.,	Hickory.
Patterson, Howard Alexander, A.B.,	Chapel Hill.
Patterson, Millard Hatcher, S.B. Com.,	Mount Airy.
Pearson, James Roy, S.B. Com.,	Apex.
Pence, James Jerome, A.B.,	Rockingham.
Penney, James Theophilus, A.B.,	Charlotte.
Penny, Ruth, A.B.,	Wendell.
Person, Joseph Arrington, A.B.,	Charlotte.

Phillips, Charles Wiley, A.B.,	Trinity.
Pickard, Nell A. Patterson, A.B.,	Chapel Hill.
Pritchard, William Grady, S.B. Com.,	Chapel Hill.
Purrington, Alfred Luther, Jr., A.B.,	Scotland Neck.
Reams, Samuel Hunter, A.B.,	Durham.
Redfearn, William Alexander, S.B. V,	Wingate.
Renegar, Harvey Caldwell, S.B. Com.,	Harmony.
Ridge, Charles Baxter, S.B. I,	High Point.
Robbins, George Branson, A.B.,	Jamestown.
Robbins, Jesse Manly, A.B.,	Ashboro.
Roberson, Nellie, A.B.,	Chapel Hill.
Roberts, Bryan Nazer, A.B.,	Hillsboro.
Roberts, Oren Ernest, A.B.,	Biltmore.
Rourk, William Asbury, Jr., S.B. IV,	Shallotte.
Royall, William Allen, A.B.,	Goldsboro.
Ruffin, William Haywood, Jr., S.B., Com.,	Louisburg.
Shaw, John Duncan, A.B.,	Laurinburg.
Shepard, Frederick Carlyle, A.B.,	Wilmington.
Shine, Lou Sullivan, A.B.,	Chapel Hill.
Shine, Wesley Hill, S.B. IV,	Chapel Hill.
Smith, Philip Carver, S.B. II,	Capron, Va.
Spencer, Rebert Baxter, A.B. in Ed.,	Chapel Hill.
Stevenson, Samuel Whitfield, A.B.,	Charlotte.
Stimpson, Robert Tula, A.B.,	Siloam.
Stout, Wilbur White, A.B.,	Burlington.
Taylor, Charles Irvin, A.B.,	Pikeville.
Taylor, Joseph White, S.B. II,	Oxford.
Taylor, Nelson Whitfort, S.B. I,	Beaufort.
Thies, Karl Ernest, S.B. Com.,	Charlotte.
Thomas, Cyrus Berkeley, A.B.,	Jonesboro.
Thompson, Franklin, S.B. Com.,	Jacksonville.
Tilson, James Frank, Jr., A.B.,	Biltmore.
Tilson, Winfred Erwin, A.B.,	Biltmore.
Tucker, Joseph Granbery, A.B.,	Plymouth.
Tuttle, Orion Augustus, A.B.,	Pineville.
VanNoppen, Donnell, S.B. Com.,	Greensboro.
Welch, Oscar Blaine, S.B. V,	Charlotte.
Whitaker, Lillie Dell, A.B.,	Carrboro.
Whiting, Brainard Sydnor, A.B.,	Raleigh.
Wilson, Thomas, S.B. Com.,	Rural Hall.
Wilson, Thomas James, III, A.B.,	Chapel Hill.
Womack, Nathan Anthony, S.B. IV,	Reidsville.
Worthington, Samuel Otis, A.B.-LL.B.,	Winterville.
Wright, Allan Brantley, S.B. II,	Winston-Salem.

Sophomore Class

Abernethy, John Turner, S.B. Com.,	Chapel Hill.
Abernethy, Oscar Marvin, S.B. Com.,	Salisbury.
Alexander, James Moffatt, S.B. IV,	Statesville.
Alexander, Robert Glenn, S.B. V,	Statesville.
Alley, Felix Eugene, Jr., A.B.	Waynesville
Allston, William Francis, S.B. II,	Flat Rock.
Anderson, William Puryear, Jr., A.B.,	Wilson.
Apple, Jackson Lafayette, A.B.,	Greensboro.
Armfield, Britt Millis, A.B.,	Ashboro.
Arrington, Samuel Lewis, A.B.,	Rocky Mount.
Aycock, Manalcus Douglas, A.B.,	Black Creek.
Aycock, Thomas Bayron, S.B. IV,	Pikeville
Ballou, James Whitaker, S.B. Com.,	Oxford.
Barden, John Glenn, A.B.,	Goldsboro.
Bardin, Benjamin Hume, A.B.,	Wilson.
Bardin, Robert Malcolm, A.B.,	Wilson.
Battle, Fred Gordon, Jr., A.B.,	New Bern.
Benbow, Edgar Vernon, S.B. IV,	East Bend.
Bender, John Alpheus, S.B. I,	Polloksville.
Bernau, Rudolph Carl, Jr., A.B.,	Greensboro.
Bondurant, Stewart Osborne, S.B. Com.,	Leaksville.
Booe, Phil Henry, S.B. Com.,	Walkertown.
Bourne, William Camillus, A.B.,	Asheville.
Boyd, Graham Venable, S.B. Com.,	Warrenton.
Boyd, Robert Edwin, S.B. III,	Gastonia.
Brand, James Neveland, Jr., A.B.,	Wilmington.
Breese, William Edward, Jr., S.B. Com.,	Brevard.
Brewer, Joseph Beaman, A.B.,	Rocky Mount.
Brooks, Clyde Kenneth, S.B. I,	Greensboro.
Brown, Herbert Stanley, S.B. Com.,	Woodland.
Brown, Sanford Wiley, S.B. Com.,	Asheville.
Browne, Joseph Malcolm, A.B.,	Kelford.
Bunch, Melvin Harry, S.B. I,	Tuscumbia, Ala.
Byrd, Daniel, A.B.,	Calypso.
Carroll, Curtis Calvin, S.B. I,	Mizpah.
Carson, Robert E. Lee, S.B. V,	Bethel.
Cash, James Albert, Jr., S.B. Com.,	Apex.
Cashatt, Cyrus Everett, A.B.,	Jamestown.
Casper, Roy Madison, S.B. II,	Salisbury.
Coffee, Carl Sylvester, S.B. Com.,	North Wilkesboro.
Coker, John Wiley, A.B.,	Rock Hill, S. C.
Cooper, Dalton, A.B.,	Albemarle.

Cornelius, William Eugene, S.B. Com.,	Mooresville.
Corpening, Harold Cochran, A.B.,	Lenoir.
Courtney, Andrew Marcus, A.B.,	Fayetteville.
Covington, Martin Luther, S.B. II,	Gibson.
Craig, Raymond Lee, S.B. Com.,	Greenwood, Miss.
Crallé, Fountaine Maury, S.B. Com.,	Louisburg.
Crawford, Robert Baker, Jr., S.B. I,	Winston-Salem.
Creech, William Harris, A.B.,	Goldsboro.
Cumpiano, Ricardo Humberto, S.B. IV,	San German, P. R.
Daniel, Julian Edwin, A.B.,	Henderson.
Daniels, Jonathan Worth, A.B.,	Washington, D. C
Davidson, Clayton Williams, S.B. II,	Mooresville.
Davis, Lloyd Wood, S.B. II,	Beaufort.
Denham, Adeline, A.B.,	Chapel Hill.
Denny, George Vernon, Jr., A.B.,	Chapel Hill.
Doggett, Howard Hugh, S.B. Com.,	Caroleen.
Dorsett, John Dewey, S.B. Com.,	Siler City.
Doss, Cortie Ira, S.B. Com.,	Hartselle, Ala.
Duffy, Henry Bryan, A.B.,	New Bern.
Edwards, Clayton, S.B. III,	Sparta.
Eley, Alvin James, A.B.,	Woodland.
Eller, John DeWalden, A.B.,	Winston-Salem.
Ellington, John Oglethorpe, Jr., A.B.,	Clayton.
Elliott, George Shannonhouse, S.B. II,	Edenton.
Elliott, Richard Felton, A.B.,	Edenton.
Feild, David Meade, Jr., A.B.,	Hertford.
Fels, Joseph, S.B. I,	Reidsville.
Finger, Gordon Turner, S.B. II,	Charlotte.
Fischel, Louis William, S.B. III,	Chester, S. C.
Francis, William Roy, A.B.,	Waynesville.
Gattis, Alice Lee, A.B.,	Chapel Hill.
Gibson, Edward Hiram, Jr., S.B. Com.,	Kernersville.
Gillespie, Samuel Crawford, Jr., A.B.,	Asheville.
Glenn, William Darby, Jr., S.B. IV,	York, S. C.
Gorham, Mack Cutchin, A.B.,	Rocky Mount.
Grant, Freeman Augustus, S.B. I,	Snead's Ferry.
Gray, Paul Milton, S.B. II,	Charlotte.
Greene, Paul Elliott, A.B.,	Lillington.
Griffith, Robert Henry, S.B. I,	Charlotte.
Grose, Willie Clay, A.B.,	Loray.
Guthrie, William Carr, A.B.,	Durham.
Hackler, Robert Harden, Jr., A.B.,	Sparta.
Hall, Elijah Frank, Jr., S.B. III,	Reidsville.
Hamer, Douglas, Jr., A.B.,	McColl, S. C.

Hardin, John Haywood, Jr., A.B.,	Wilmington.
Harrell, John Aldridge, S.B. I,	Burlington.
Harris, Henry Clayton, A.B.,	Pungo.
Hartness, John Frederick, S.B., II,	Mooresville.
Hartsell, Luther Thompson, Jr., A.B.-LL.B.,	Concord.
Hedrick, Clyde Reitzel, S.B. IV,	Lenoir.
Hendren, Joseph Flanner, Jr., A.B.,	Elkin.
Herring, Paul Dominic, A.B.,	Clinton.
Hettleman, Phillip, S.B. Com.,	Goldsboro.
Hill, George Watts, A.B.,	Durham.
Hooker, Edgar Frank, S.B. IV,	Kinston.
Horner, William Edwin, A.B.,	Durham.
Hunter, Frank Patterson, S.B. IV,	Warrenton.
Jacobi, David Benthner, S.B. Com.,	Wilmington.
Jenkins, Micah, S.B. Com.,	Morganton.
Jennings, Earl DeWitt, S.B. I,	Charlotte.
Johnston, Claud Stewart, A.B.,	Harpers Ferry, W. Va.
Johnston, Rufus Manfred, Jr., S.B. Com.,	Gastonia.
Kendrick, Haywood Benjamin, A.B.,	Cherryville.
Kent, Stephen Garland, S.B., II,	Sanford.
Koonts, Raymond Ray, A.B.,	Cooleemee.
Lake, Marshall Edgar, S.B. II,	Salisbury.
Lamm, Jasper Herman, S.B. I,	Lucama.
Lancaster, Charles Gradis, S.B. II,	Lexington.
Lane, Sidney Johnston, Jr., A.B.,	Henderson.
Lee, Charles Gaston, Jr., A.B.,	Asheville.
Lee, Raleigh Bradford, A.B.-LL.B.,	Aurora.
LeGrand, Rufus Little, S.B. Com.,	Wilmington.
Lemmond, Walker Avery, S.B. Com.,	Matthews.
Lewis, Warner Meriwether, A.B.,	Greenville.
Lively, Knox Kent, Jr., S.B. III,	Reidsville.
London, William Lord, S.B. Com.,	Pittsboro.
Long, Ira Gillespie, A.B.,	Derita.
McClurd, Samuel Ralph, A.B.,	Cherryville.
McDowell, Archibald, Jr., A.B.,	Scotland Neck.
McEwen, Joseph Levy, S.B. I,	Monroe.
McLean, Joseph Altira, A.B.,	Gibsonville.
MacRae, John Donald, S.B. I,	Asheville.
McRae, James Patterson, A.B.,	Laurinburg.
Marshburn, Robert Franklin, A.B.,	Wallace.
Martin, Floyd Alexander, S.B. Com.,	East Bend.
Martin, Oscar Eugene, S.B. III,	East Bend.
Matthews, William Edwin, A.B.,	Charlotte.
Maxwell, John Edward, A.B.,	Goldsboro.

Mecum, Ernest James, S.B. II,	Walkertown.
Menzies, Abel A. Shuford, A.B.,	Hickory.
Mercer, Armistead Lilly, S.B. Com.,	Wilmington.
Merritt, Abram Haywood, S.B. Com.,	Mount Airy.
Mewborne, Edward Bruce, A.B.-LL.B.,	Kinston.
Moehlmann, Ernst Otto, S.B. I,	Conover.
Mourane, Joseph Harley, S.B. I,	Durham.
Murchison, William Cannon, S.B. V,	Greensboro.
Myers, Dwight Loftin, S.B. IV,	Jennings.
Nash, Marion Wesley, S.B. Com.,	Winston-Salem.
Neelley, Harry Hollingsworth, A.B.,	Pleasant Garden.
Neville, Hubert, S.B. Com.,	Chapel Hill.
Newman, Isaac Bear, S.B. III,	Wilmington.
Newton, Thomas Frank, A.B.,	Morganton.
Norwood, John, S.B. III,	Goldsboro.
Oden, John William, S.B. Com.,	Washington.
Ogburn, Roger Wendell, A.B.,	Kernersville.
Parham, Edwin Fuller, A.B.,	Henderson.
Parker, Charles Jackson, Jr., A.B.,	Raleigh.
Parker, Talbot Fort, A.B.,	Goldsboro.
Parks, Claude Maynard, A.B.,	Rockwood, Tenn.
Peacock, Frank Lee, A.B.,	Fremont.
Pharr, Fred, S.B. Com.,	Charlotte.
Phipps, Luther James, S.B. III,	Chapel Hill.
Pickens, Wyatt Andrew, A.B.,	High Point.
Pickett, Howell Grady, S.B. I,	Madison.
Pollock, Philip Basil, A.B.,	Trenton.
Porter, Garland Burns, A.B.,	Kernersville.
Pressly, Joseph Lowry, S.B. II,	Charlotte.
Price, Heath, S.B. II,	Monroe.
Priest, Perry Davis, S.B. IV,	Ridgecrest.
Prince, William Marshall, A.B.,	Laurinburg.
Proctor, Robert Wright, A.B.,	Lumberton.
Proctor, William Clyde, A.B.,	Durham.
Pruden, Lina Tucker, A.B.,	Edenton.
Quillin, Edward Lee, S.B. Com.,	Spencer.
Rand, Emmett Gladstone, A.B.,	Garner.
Rankin, Henry Ashby, Jr., S.B. III,	Fayetteville.
Ranson, Paul Jones, A.B.,	Huntersville.
Ranson, Robert Lacy, S.B. Com.,	Huntersville.
Raper, Julius Rowan, Jr., A.B.,	Linwood.
Robertson, Edwin Mason, S.B. IV,	Woodsdale.
Rogers, Exum Allen, A.B.,	Durham.
Roseman, Milo A. Jackson, Jr., A.B.,	Salisbury.

Royal, Donnie Martin, A.B.,	Salemburg.
Schiffman, Harry Wise, S.B. I,	Greensboro.
Scholl, James Lester, A.B.,	Holly Springs.
Shore, George Dewey, A.B.,	Yadkinville.
Sims, Allen Harold, Jr., S.B. Com.,	Kings Mountain.
Smith, Albert Lewis, S.B. I,	Concord.
Smith, Charles Henry, A.B.,	Reidsville.
Smith, Luther Stevens, S.B. III,	Troy.
Smith, Nathaniel McNair, A.B.,	Raeford.
Smith, Thomas Clarke, S.B. Com.,	Charlotte.
Smoot, William Brittingham, S.B. I,	Salisbury.
Sparger, Collier Bryson, S.B. Com.,	Mount Airy.
Spencer, Hiram Riece, A.B.,	Siloam.
Staley, Abram Wills, A.B.,	Greensboro.
Steed, Thomas Warwick, A.B.,	Richlands.
Stephenson, Irving Joseph, S.B. III,	Angier.
Stevens, Elliott Walker, S.B. IV,	Warsaw.
Strudwick, Clement Read, A.B.,	Hillsboro.
Summey, Leo Deaton, A.B.,	Dallas.
Sumner, Clarence Reese, A.B.,	West Asheville.
Susman, Benjamin Louis, S.B., Com.,	Washington.
Swann, Edward Lyle, S.B. II,	Dandridge, Tenn.
Sweetman, Edward Martin, Jr.,	Knoxville, Tenn.
Symmes, Charlton Emory, A.B.,	Wilmington.
Taylor, Tyre Crumpler, A.B.,	Sparta.
Thomas, Thomas Kent, S.B. I,	Lenoir.
Thompson, Earle Hinson, S.B. Com.,	Kenansville.
Thompson, Ernest Haynes, A.B.,	Goldsboro.
Thomson, Lucille, S.B. II,	Wilmington.
Thorp, Isaac Davenport, A.B.,	Rocky Mount.
Tillman, Reginald Archibald, S.B. II,	Kinston.
Toms, William Francis, S.B. Com.,	Arden.
Transou, William Monford, S.B. Com.,	Greensboro.
Tuttle, Frank Ray, S.B. Com.,	Lenoir.
Underwood, John Williamson, S.B. Com.,	Fayetteville.
Van Landingham, Ralph, Jr., A.B.,	Charlotte.
Venters, Leon Stephens, A.B.,	Richlands.
Waddill, James Breeden, S.B. II,	Wilmington.
Waldrop, Hugh Densmore, S.B. Com.,	Hendersonville.
Warren, Jack, S.B., Com.,	Washington.
Warren, Thomas Lafayette, A.B.,	Lenoir.
Watson, George Curtis, S.B Com.,	Enfield.
Wearn, James Sims, S.B. III,	Charlotte.
Wearn, Robert Morrison, S.B. II,	Charlotte.

Wells, Dare Abernethy, S.B. II,	Asheville.
Whitener, Daniel Jay, A.B.-LL.B.,	Hickory.
Wilkins, Adger Bright, A.B.,	Linden.
Wilkinson, George Wimberley, A.B.,	Rocky Mount.
Willard, Edward Payson, Jr., A.B.,	Wilmington.
Williams, Claude James, Jr., A.B.,	Concord.
Williams, Woodward White, S.B. Com.,	Durham.
Williamson, James Saunders, A.B.,	Burlington.
Wilson, Lawrence Addison, S.B. IV,	Fairmont.
Wilson, Lawrence Girard, S.B. III,	Dunn.
Wilson, William Alexander, S.B. III,	Rural Hall.
Wood, James Edward, S.B. III,	Edenton.
Woodall, Junius Cheston, S.B. IV,	Charlotte.
Wooten, Sterling Dillon, A.B.-LL.B.,	Goldsboro.
Younce, Jesse Edward, S.B. IV,	Spencer.
Zirkle, George Campbell, S.B. III,	Dandridge, Tenn.

Freshman Class

Abernethy, Ernest Henry, A.B.,	Hickory.
Ader, Oscar Lado, S.B. IV,	Advance.
Alexander, Edward Johnston, S.B. V,	Asheville.
Alexander, Lyndall Vaughn, S.B. Com.,	Asheville.
Allen, Durham Edward, A.B.,	Clarkton.
Allen, Joseph Thomas, A.B.,	Gibsonville.
Allen, Oliver Harrison, A.B.,	Goldsboro.
Anderson, James Maurice, S.B. V,	Statesville.
Anderson, Richard Fenner, S.B. II,	Greensboro.
Angel, Clarence Cooper, S.B. II,	Bryson City.
Angel, Thomas Weldon, Jr., S.B. II,	Franklin.
Apple, Willis Jordan, S.B. II,	Burlington.
Ashford, Charles Hall, A.B.,	New Bern.
Avery, William Johnston, S.B. I,	Morganton.
Aycock, Frank Bayard, A.B.,	Fremont.
Aycock, John Yancey, A.B.,	Black Creek.
Aydlett, Trim White, A.B.,	Elizabeth City.
Aydlett, Wyatt Rudolph, S.B. Com.,	Harbinger.
Bailey, William Marius, S.B. I,	Salisbury.
Baldwin, Annie Elizabeth, A.B.,	Apex.
Barefoot, Nathan Carl, A.B.-LL.B.,	Benson.
Barnes, John Thomas, A.B.,	Wilson.
Barnes, John Thomas, Jr., A.B.,	Wilson.
Battle, James Smith, A.B.,	Tarboro.
Baxley, Elisha Rowland, S.B. IV,	Roberdel.

Beal, Seawell Killian, S.B. Com.,	Lincolnton.
Beale, Jesse Jordan, A.B.-LL.B.,	Potecasi.
Beaudry, Francis Earl, S.B II,	Winston-Salem.
Beaver, James Aubrey, A.B.,	Salisbury.
Bell, Robert P., A.B.,	Concord.
Bellamy, Clayton Giles, A.B.,	Wilmington.
Best, John Harper, A.B.,	Greensboro.
Bizzell, Claude Franklin, S.B. V,	Goldsboro.
Blake, Wyatt Elbert, A.B.,	Burgaw.
Blalock, Verne Wayne, A.B.,	Salisbury.
Blount, James D., A.B.,	Wilson.
Boddie, William Croom, S.B. II,	Nashville.
Boyd, Richard Crowell, S.B. Com.,	Hickory.
Bradford, John Hugh, A.B.,	Huntersville.
Branch, Hewland Acree, S.B. Com.,	Wilson.
Braswell, James Craig, Jr., A.B.,	Rocky Mount.
Brittain, John Vance, S.B. I,	Murphy.
Brockman, Otto Raven, S.B. I,	Greensboro.
Brown, Eugene Wilson, A.B.,	Rich Square.
Brown, Hugh McDonald, S.B. Com.,	Hillsboro.
Brown, John McKinley, A.B.,	Wilkesboro.
Brown, Roy Eugene, A.B.,	Statesville.
Brown, William Lee, S.B. I,	Greensboro.
Bryan, Swannie Duke, A.B.,	Apex.
Bryson, Herman Jennings, A.B.,	West Asheville.
Buice, Samuel David, A.B.,	Chapel Hill.
Bullock, Henry Harrison, S.B. V,	Fuquay Springs.
Burleson, Milton English, S.B. Com.,	Erwin, Tenn.
Butler, Daniel Clifton, A.B.,	Rowland.
Camp, Joseph Eugene, S.B. I,	Talladega, Ala.
Carmichael, Richard Cartwright, A.B.,	Durham.
Carpenter, Robert Edgar, S.B. III,	Cliffside.
Carwile, James Leander, S.B. Com.,	Autreville, S. C.
Cashatt, Ivey Wesley, A.B.-LL.B.,	Jamestown.
Castor, Frank Stevens, A.B.,	Concord.
Cates, Claudia Mae, A.B.,	Chapel Hill.
Cathey, Robert Alexander, S.B. II,	Salisbury.
Cathey, Samuel Murston, A.B.,	Skyland.
Cathey, Wilton, A.B.,	Charlotte.
Chapman, John Woodley, S.B. I,	Charlotte.
Chapman, Lloyd James, S.B. Com.,	Grifton.
Chappell, Harry Vaughn, A.B.,	Belvidere.
Charnley, Walter Loren, S.B. III,	Charlotte.
Cheek, Viola Rosalind, A.B.,	Chapel Hill.

Cheesborough, John Cheesborough, A.B.,	Asheville.
Choate, James Borce, S.B. III,	Huntersville.
Clark, William Grimes, Jr., A.B.,	Tarboro.
Clinard, Charles Brown, A.B.,	Winston-Salem.
Cline, Joseph Ivey, A.B.,	Granite Falls.
Coggeshall, William Dargan, A.B.,	Darlington, S. C.
Collins, James Chase, A.B.,	Catharine Lake.
Combs, Joseph John, A.B.,	Columbia.
Cooper, Edwin Bruce, A.B.,	Dunn.
Cooper, Junius Horner, A.B.,	Oxford.
Cooper, Marshall Young, S.B. Com.,	Henderson.
Cooper, William Haywood, Jr., S.B. II,	Laurinburg.
Corbett, Haywood William, A.B.,	Whitakers.
Correll, Henry Nichols, S.B. I,	Spartanburg, S. C.
Couch, William Terry, S.B. II,	Chapel Hill.
Council, Stedman Cilley, S.B. III,	Hickory.
Crayton, Joseph Eugene, S.B. Com.,	Charlotte.
Creech, Charles Aycock, A.B.,	Goldsboro.
Creech, Gerald Taylor, A.B.,	LaGrange.
Crowson, Ogden Finley, S.B. Com.,	Burlington.
Cuningham, Henry Carrington, A.B.,	Durham.
Dabbs, Henry Lawrence, A.B.,	Lilesville.
Dalton, Pleasant Hunter, S.B. II,	Concord.
Daniels, Stephen Fowler, S.B. Com.,	New Bern.
Davis, Guion Gray, A.B.,	East Bend.
Davis, Robert McIlwaine, A.B.,	Warrenton.
Davis, Roy Piland, A.B.,	Kinston.
Davis, Samuel Lee, Jr., S.B. Com.,	High Point.
Dellinger, Everett Edward, S.B. II,	Cherryville.
deRosset, Marsden Bellamy, A.B.,	Wilmington.
Dickson, George Graham, A.B.,	Raeford.
Dobbins, Wiley Edward, S.B. Com.,	Yadkinville.
Donnahoe, Jefferson Davis, A.B.,	Biltmore.
Doughton, J. Horton, S.B. Com.,	Laurel Springs.
Downing, Augustus Owens, A.B.,	Newark, N. J.
Dry, Charles Harold, A.B.,	Concord.
Dula, Frederick Mast, S.B. IV,	Lenoir.
Dupree, Benjamin Owens, A.B.,	Plymouth.
Duval, Louis Daniel, S.B. II,	Charlotte.
Eagles, John Bruce, A.B.,	Walstonburg.
Eaton, George Worland, S.B. Com.,	Hickory.
Edgerton, Viron Burton, S.B. IV,	Kenly.
Edwards, Preston Hampton, Jr., A.B.,	Darlington, S. C.
Egerton, William Alexander, S.B. III,	Hendersonville.

Elkins, William James, A.B.,	Elkton.
Engstrum, Edgar Francis, S.B. Com.,	New Bern.
Engstrum, Thomas Gerald, A.B.,	New Bern.
Enloe, Scroop Wesley, Jr., A.B.,	Dillsboro.
Epstein, Henry George, A.B.,	Goldsboro.
Epstein, Solomon Niles, S.B. Com.,	Goldsboro.
Essie, Abdo Frank, A.B.,	Chapel Hill.
Everett, James LeGrand, S.B., Com.,	Rockingham.
Fanning, Frederick Deveau, Jr., A.B.,	Durham.
Felton, Robert Lee, Jr., A.B.,	Fayetteville.
Fesperman, Gideon VanPoole, A.B.,	East Spencer.
Field, Harry Herbert, A.B.,	Asheville.
Flack, John Hoke, A.B.,	Edneyville.
Fleming, Charles Clyde, S.B. Com.,	Fuquay Springs.
Fogleman, Howard Simpson, S.B. Com.,	Burlington.
Foust, Dewey, S.B. I,	High Point.
Froneberger, P. Carroll, A.B.,	Bessemer City.
Fuquay, Leon McLeod, A.B.,	Coats.
Gaither, William Hayes, A.B.,	Hertford.
Gambill, Walter James, A.B.,	Piney Creek.
Gandy, William Charles, Jr., S.B. V,	Dovesville, S. C.
Gattis, Lillian Foushee, A.B.,	Chapel Hill.
Gattis, Willie Floyd, S.B. Com.,	Louisburg.
Gay, Ballard Spruill, A.B.,	Jackson.
Gaylord, John Freeman, S.B. III,	Phoenix.
Gentry, James Walter, S.B. II,	Jefferson.
Gholson, Thornton Patton, A.B.,	Henderson.
Glenn, John Wesley, S.B. II,	Asheville.
Graham, Thomas Pegram, S.B. III,	Charlotte.
Grainger, Jesse Willis, S.B. IV,	Kinston.
Gray, Robert Lilly, Jr., A.B.,	Newport News, Va.
Green, Howard Franklin, S.B. Com.,	Wilmington.
Greenwood, James Clell, S.B. Com.,	Asheville.
Grissett, Felix Alexander, A.B.,	Collettsville.
Groce, Thomas Arthur, S.B. IV,	Candler.
Grose, Claude Harve, S.B. IV,	Forest City.
Gullick, Jonathan Greene, A.B.,	Belmont.
Hadley, William Alonzo, S.B. III,	La Grange.
Hall, Samuel Cannady, A.B.,	Oxford.
Hampton, George Coggin, A.B.,	Chapel Hill.
Hamrick, Forrest Wylie, A.B.,	Shelby.
Hannah, William Tucker, A.B.,	Waynesville.
Harding, Thomas Leonard, A.B.,	Yadkinville.
Harding, William Knowlton, S.B. II,	Charlotte.

Hargett, Harold Bryant, A.B.,	Trenton.
Harmon, John Obie, A.B.,	Pittsboro.
Harris, Everett Jones, A.B.,	Engelhard.
Harris, William Lysander, A.B.,	Henderson.
Harris, William Vaughan, A.B.,	Salisbury.
Hartshorn, Matthew LeFevre, S.B. III,	Asheville.
Havner, Alfred Sidney, S.B. II,	Rutherford College.
Henderson, William Thomas, A.B.,	Hickory.
Hendrix, Olin Carlton, S.B. IV,	Advance.
Herron, Fred Julian, S.B. IV,	Skyland.
Highsmith, Jacob Frank, Jr., A.B.,	Fayetteville.
Hill, Gerald Danforth, S.B. Com.,	Beaufort.
Hobbie, Sherwood Eugene, S.B. II,	Clayton.
Hodge, Layton Leon, S.B. Com.,	Burlington.
Hodges, John Daly, A.B.,	LaGrange.
Hodgin, David Reid, A.B.,	Sanford.
Holden, William Lorence, S.B. IV,	Wilmington.
Holderness, Howard, A.B.,	Tarboro.
Holloman, William Moses, A.B.,	Ahoskie.
Holmes, Clayton Carr, A.B.,	Council.
Holt, Percy Kirkpatrick, S.B. Com.,	Burlington.
Holt, William Preston, S.B. IV,	Duke.
Honeycutt, Gilbert Mansfield, S.B. IV,	Chapel Hill.
Hook, Walter Williams, S.B. III,	Charlotte.
Horne, William Henry, S.B. II,	Rocky Mount.
Horsefield, Geoffrey Maurice, A.B.,	Oxford.
Hosea, William, A.B.,	Goldsboro.
Howard, Thomas Simmons, S.B. Com.,	Pink Hill.
Humphrey, Barney Edison, S.B. II,	Wilmington.
Hungerford, Leslie Phillips, A.B.,	Charlotte.
Hunt, Edwin Clyde, A.B.,	Lexington.
Hunt, George Penn, S.B. Com.,	Oxford.
Hunt, William Ernest, S.B. IV,	Oxford.
Huss, Webb Hunter, A.B.,	Cherryville.
Hutton, George Norman, S.B. Com.,	Hickory.
Irvin, Edwin Newell, S.B. III,	Charlotte.
Isley, Garland R., A.B.,	Burlington.
James, Andrew Ellerson, S.B. Com.,	Wilson.
Jenkins, Samuel G., A.B.,	Tarboro.
Jernigan, Ernest Casper, A.B.,	Benson.
Johnson, Eliot Wesley, S.B. IV,	Kipling.
Johnson, Joseph Lewis, S.B. IV,	Apex.
Johnson, Joseph Thurman, S.B. I,	Durham.
Justice, Ralph Healan, S.B. Com.,	Greensboro.

Justus, George Ewart, S.B. II,	Flat Rock.
Kerr, James Yancey, A.B.,	Warrenton.
Kerr, Samuel Allen, S.B. II,	Greensboro.
Kesler, Bernie B. Calhoun, A.B.,	Salisbury.
Key, Davis Everett, S.B. II,	Ronda.
Kimbrough, Joseph William, S.B. IV,	Raleigh.
King, Arnold Kimsey, S.B. IV,	Hendersonville.
King, William Thomas, S.B. Com.,	Louisburg.
Koontz, Rufus Guyn, S.B. II,	Mocksville.
Lackey, Eli Alexander, A.B.,	Hamlet.
Lackey, John Cornelius, S.B. Com.,	Hamlet.
Lankford, Greene Wright, A.B.,	Harmony.
Leak, James Pickett, S.B. Com.,	Rockingham.
Leftwich, Mason Ford, S.B. II,	Biltmore.
Lehman, Ernest Eugene, S.B. II,	Rosemary.
Lenderman, Paul, S. B. Com.,	Wilkesboro.
Leonard, Grady Hill, S.B. I,	Lexington.
Lillycrop, William Arthur, A.B.,	Charlotte.
Linker, William Murray, S.B. II,	Salisbury.
Linney, Romulus Zachariah, Jr., A.B.,	Charlotte.
Little, James Thomas, A.B.,	Greenville.
Little, Thomas A., A.B.,	Marshville.
Long, Zachary Fillmore, S.B. IV,	Rockingham.
Lutz, David Alvin, A.B.,	Granite Falls.
Lyerly, William Richard, S.B. Com.,	Asheville.
MacAuley, Eurid Reid, A.B.,	Huntersville.
MacAuley, Olin Caldwell, S.B. Com.,	Huntersville.
McCain, William Frank, A.B.,	Waxhaw.
McClamrock, James Robbin, A.B.,	Greensboro.
McCorkle, Edgar Ralph, A.B.,	Charlotte.
McCoy, George William, A.B.,	Asheville.
McCraw, James T. Wiggins, A.B.,	Wilson.
McDonald, Angus Morris, Jr., A.B.,	Charlotte.
McGee, Alan Marshall, S.B. III,	Goldsboro.
McLennan, Daniel Commie, A.B.,	Chapel Hill.
McMillan, Charles Vance, S.B. III,	Parkton.
McMullan, William Oscar, A.B.	Elizabeth City.
McMurry Ernest Logan, A.B.,	Columbus.
McNair, John Franklin, A.B.,	Laurinburg.
McPherson, Harlan Loftin, S.B. Com.,	Burlington.
Mackie, Basil Girard, S.B. III,	Yadkinville.
Marcom, James Lester, A.B.,	Cary.
Mardre, George Lewis, Jr., A.B.,	Windsor.
Marler, Robert Franklin, S.B. Com.,	Winston-Salem.

Martin, Delos Dwight, A.B.,	Yadkinville.
Martin, Edward Lane, S.B. III,	Charlotte.
Martin, John Bennett, S.B. Com.,	East Bend.
Matthews, Charles Irving, A.B.,	Clinton.
Matthews, Raymond E., A.B.,	Wilson.
Matthews, Stanford Thomas, A.B.,	Turkey.
Mauney, Carl Glenn, S.B. II,	Maiden.
Maupin, William Chapman, Jr., A.B.-LL.B.,	Salisbury.
Maxwell, Samuel Worth, A.B.,	Charlotte.
May, Reginald Cameron, S.B. I,	Lenoir.
Mebane, William Marion, S.B. II,	Newton.
Mendenhall, John Henry, A.B.,	Greensboro.
Menzies, Donald Stuart, S.B. Com.,	Hickory.
Menzies, Sterling Ferguson, A.B.,	Hickory.
Merritt, Carroll Zola, A.B.,	New Bern.
Merritt, Hiram Houston, Jr., S.B. IV,	Wilmington.
Meyer, George Michael, S.B. II,	Charlotte.
Miller, Alexander Augustus, S.B. I,	Goldsboro.
Miller, Irving Ray, A.B.,	Richfield.
Mills, William Clarence, Jr., A.B.,	Richlands.
Mitchell, John Gulick, S.B. Com.,	Oxford.
Mitchell, Walter Elwood, S.B. III,	Hickory.
Mitchum, William Clayton, A.B.,	Bessemer City.
Monk, H. Lawrence, A.B.,	Salisbury.
Morris, Fred Detwiley, A.B.,	Gastonia.
Morris, Roy Wilson, S.B. Com.,	Gastonia.
Moser, Artus Monroe, A.B.,	Swannanoa.
Murdock, Thomas Glenn, A.B.,	Salisbury.
Neville, Cecil Howell, S.B. IV,	Whitakers.
Newbern, John Small, A.B.,	Olds.
Nixon, Julian Granbery, A.B.,	Hertford.
Oldham, Lewis Bayard, S.B. I,	Chapel Hill.
Orr, Albert Summey, S.B. II,	Charlotte.
Osborn, Allen Yancey, S.B., IV,	Kinston.
Parham, Samuel Jones, Jr., A.B.,	Louisburg.
Parker, Dan Beauregard, A.B.,	Robersonville.
Parker, William Vann, A.B.,	Monroe.
Parrish, Charles Vaton, A.B.,	Angier.
Parrott, James Marion, Jr., S.B. IV,	Kinston.
Pate, Julian Micah, S.B. Com.,	Goldsboro.
Peele, Eugene Halstead, A.B., Manteo.	Manteo.
Pemberton, Heath Lee, A.B.,	Concord.
Pendergraft, Pearl, A.B.,	Chapel Hill.
Penton, Howard Allen, S.B. Com.,	Wilmington.

Perkins, James Vance, A.B.,	Stokes.
Perry, Charles H., A.B.,	Balsam.
Phillips, Lawrence Vermeule, S.B. I,	Columbia, S. C.
Pickle, Roy Lee, A.B.,	Advance.
Poindexter, Charles Crawford, A.B.,	Franklin.
Powell, William Edward, A.B.,	Wilmington.
Prescott, Marion Butler, A.B.,	Ayden.
Price, Ralph Clay, A.B.,	Greensboro.
Purrington, Philip Parker, A.B.,	Scotland Neck.
Ragsdale, James Edward, A.B.,	Florence, S. C.
Rand, Cecil Holmes, S.B. IV,	Garner.
Ratliff, Walter Haym, A.B.,	Wauchula, Fla.
Rawls, Hubert Jesse, A.B.,	Robersonville.
Ray, James Wilford, A.B.,	Brevard.
Reavis, Peter Augustus, Jr., S.B. Com.,	Louisburg.
Redding, Joseph Lyman, S.B. Com.,	High Point.
Reynolds, Lawrence Houston, S.B. II,	Selma.
Reynolds, Walter Raleigh, S.B. II,	Oak Ridge.
Rhue, Jesse Robert, A.B.,	Stella.
Rickert, James Austin, S.B. Com.,	Asheville.
Rike, Robert Clayton, S.B., II,	Randleman.
Ritchie, William A., A.B.,	Concord.
Robertson, Samuel Thompson, A.B.,	Woodsdale.
Ross, Harold Lacy, S.B. II,	Greensboro.
Royall, John Allen, Jr., A.B.,	Beaufort.
Sanders, William Marsh, Jr., S.B. Com.,	Smithfield.
Scarborough, Albert Moses, A.B.,	Kinston.
Sessoms, Robert Edward, S.B. I,	Colerain.
Sharpe, Otho J., A.B.,	Stony Point.
Shepard, Norman Westbrook, S.B. Com.,	Wilmington.
Shepard, Thomas Harrison, S.B. II,	Edenton.
Short, John Merithan, S.B. Com.,	Fremont.
Shuford, Donald Emory, S.B. Com.,	Hickory.
Simpson, Ralph Harvard, S.B. II,	Gastonia.
Sinclair, David Cuningham, Jr., A.B.,	Wilmington.
Smiley, Thomas Bryan, S.B. II,	Bryson City.
Smith, Cecil Cline, A.B.,	Holly Springs.
Smith, Charles Gilman, S.B. Com.,	Tarboro.
Smith, Calvin Upshur, S.B. II,	Capron, Va.
Smith, Clater Webb, S.B. IV,	Whiteville.
Smith, George Herbert, Jr., S.B. I,	Wilmington.
Smith, James Millard, A.B.,	Greenville.
Smith, Samuel Wall, S.B. Com.,	Charlotte.
Smith, William Leonidas, S.B. IV,	Greensboro.

Spain, Jack Holland, A.B.-LL.B.,	Greenville.
Spaugh, Ralph Edward, S.B. Com.,	Winston-Salem.
Speck, Thomas Wells, S.B. III,	York, S. C.
Spruill, Jack White, A.B.,	Sanatorium.
Stalvey, Archie Boyd, Jr., S.B. IV,	Roxboro.
Stancill, John Russell, A.B.,	Greenville.
Stevenson, Samuel Harris, A.B.,	Loray.
Stoudemire, Sterling Aubrey, A.B.,	Spencer.
Stout, George Richard, S.B. I,	Julian.
Stribling, John Williams, A.B.,	Concord.
Stroud, Charles Edward, S.B. IV,	Greensboro.
Stroupe, Christopher Rush, S.B. II,	Altamont.
Stroupe, Francis Lee, A.B.,	Altamont.
Sullivan, William Addison, S.B. V,	Asheville.
Suttle, Claude Baxter, S.B. Com.,	Charlotte.
Swink, Hearne, S.B. Com.,	China Grove.
Swink, William Joshua, Jr., S.B. Com.,	China Grove.
Sylvester, Richard Durward, A.B.,	Richlands.
Taylor, Joseph Mitchell, A.B.,	Chocowinity.
Taylor, Walter John, A.B. in Ed.,	Rutherfordton.
Teague, Lewis Everett, A.B.,	High Point.
Thomas, Charles Avery, S.B. Com.,	Burlington.
Thompson, Edward Arthur, S.B. II,	Greensboro.
Thompson, George West, S.B. V,	Goldsboro.
Thompson, Horace Kent, A.B.,	Jacksonville.
Thompson, Russell Aubrey, S.B. II,	Wilson.
Thompson, Robert Love, Jr., A.B.,	New York, N. Y.
Thornton, Thomas Albert, Jr., S.B. II,	Fayetteville.
Tolar, James Westwood, A.B.,	Fayetteville.
Tomlinson, Dwight Garrott, S.B. Com.,	Troy.
Trivette, William Marion, S.B. Com.,	Lewisville.
Trotter, John Paul, A.B.,	Charlotte.
Turner, Thomas, A.B.,	High Point.
Turrentine, Julian Atwater, S.B. Com.,	Greensboro.
Upchurch, Roy Wakefield, S.B. IV,	Oxford.
Uzzell, Lula Valeria, A.B.,	Chapel Hill.
Uzzell, Pauline, A.B.,	Chapel Hill.
Verner, Mary Elizabeth, S.B., I,	Cristobal, Canal Zone.
Vickers, Winston Gordon, S.B. III,	Durham.
VonCanon, Charles Herman, Jr., A.B.,	Spencer.
Wade, Julius Jennings, A.B.,	Dunn.
Wagoner, Joseph, S.B. II,	Clemmons.
Wall, Max Solomon, S.B. Com.,	High Point.
Wallace, Samuel Gordon, S.B. Com.,	Statesville.

Ward, Hearschel Thomas, S.B. Com.,	Hickory.
Ware, Reuben Ring, A.B.,	Reidsville.
Warrick, Jesse, A.B.,	Sioux.
Waugh, Henry Edwin, S.B. II,	North Wilkesboro.
Weatherly, William Cecil, A.B.,	Brown Summit.
Webb, William Devin, A.B.,	Oxford.
Weeks, Robert Silas, Jr., S.B. Com.,	Whitakers.
Weitzel, Frederick Jacob, S.B. II,	Tuscumba, Ala.
Whedbee, Silas Martin, A.B.,	Hertford.
White, Edgar Farrell, Jr., S.B. Com.,	Concord.
White, Robert Benjamin, S.B. Com.,	Concord.
White, William Edgar, Jr., S.B. Com.,	Louisburg.
Wicker, Matthew Edward, S.B. III,	Sanford.
Wiles, Walter Erasmus, A.B.-LL.B.,	Furches.
Williams, Alfred, Jr., S.B. Com.,	Raleigh.
Williams, Colon Edgar, A.B.,	Benson.
Williams, Daniel DeWitt, S.B. III,	Rose Hill.
Williams, Lloyd Preston, S.B. V,	Fee Dee.
Williamson, Benjamin Napier, S.B. Com.,	Louisburg.
Willson, Harold Sellers, S.B. II,	Charlotte.
Winecoff, Clarence Lindsay, S.B. III,	Concord.
Woodall, William Brantley, A.B.,	Benson.
Woodard, Warren Vaughan, A.B.,	Wilson.
Wooten, Thomas Myers, S.B., Com.,	Fayetteville.
Wootten, William Patrick, S.B. II,	Hickory.
Workman, Frank Leslie, S.B. I,	Burlington.
Worsham, Blackburn Buford, A.B.,	Reithbend, Va.
Yates, Jesse Graves, A.B.,	Asheville.
Yates, William James, A.B.,	Charlotte.
Yelverton, Oscar Wayne, S.B. II,	Fremont.
Young, Robert Gill, S.B. Com.,	Henderson.
Young, Victor Vernon, A.B.,	Durham.
Young, William Dorsey, S.B. III,	Durham.
Youngblood, Samuel Herbert, S.B. IV,	Charlotte.

Special Students

Abelkop, Isador Meyer, Premed.,	Durham.
Anderson, Richard Speight, Premed.,	Whitakers
Angell, Darius Hampton, Premed.,	Winston-Salem.
Arrasmith, Thomas Milton, Jr., Premed.,	Hillsboro.
Austin, James Herman, Premed.,	Charlotte.
Babbitt, Elizabeth H. Clark, Premed.,	New Bern.
Barnett, Orvin Banning, Premed.,	Spencer.

Bason, William Jennings, Spec. Com.,	Swepsonville.
Battle, Newsome Fittman, Premed.,	Tarboro.
Black, George Williams, Premed.,	Mt. Holly.
Blount, Samuel Masters, Premed.,	Washington.
Blue, William Eugene, Premed.,	Fayetteville.
Boone, Edward Lawrence, Premed.,	Rich Square.
Bowen, Joseph Francis, Premed.,	Greenville.
Brabson, Samuel Prioleau, Premed.,	Franklin.
Britt, Reddin, Premed.,	Lumberton.
Brown, Robert E. Lee, Spec. Com.,	Chadbourn.
Bryan, Thomas Randall, Jr., Premed.,	Brooklet, Ga.
Bryan, William Carroll, Premed.,	Newton Grove.
Byerly, Marshall Paul, Premed.,	Lexington.
Caffee, Carl Monroe, Premed.,	Swan Quarter.
Campen, George Benjamin, Premed.,	Alliance.
Carman, William Bennett, Premed.,	Gibsonville.
Carroll, James Anthony, Premed.,	Hookerton.
Champion, Herbert Attis, Premed.,	Mooresboro.
Cole, Ray Enoch, Premed.,	Pittsboro.
Coleman, Charles Winstead, Premed.,	Lyons.
Colvard, George Todd, Spec.,	Jefferson.
Comer, William Ernest, Premed.,	New Castle.
Conoly, James Halbert, Premed.,	Maxton.
Cooper, Thomas Duncan, Elect. Law,	Graham.
Cornwell, Marion Mobley, Premed.,	Chester, S. C.
Costner, Walter Vance, Spec.,	Lincolnton.
Craven, Oliver Kenneth, Premed.,	Charlotte.
Crawford, William Frank, Premed.,	Mebane.
Crumpler, Claudius Ollin, Premed.,	Huntley.
Cummings, Amos J., Spec.,	Winston-Salem.
Daughtridge, Arthur Lee, Premed.,	Rocky Mount.
Davis, Dwight Groome, Premed.,	Greensboro.
Ditmore, Henry Boaz, Premed,	Bryson City.
Douglass, Jay Barnette, Spec.,	Winston-Salem.
Downing, Dennis Garland, Spec.,	Cedar Creek.
Duncan, David Dudley, Spec.,	Beaufort.
Edens, Jefferson Davis, Spec.,	Clio, S. C.
Eldridge, Harvey Allen, Premed.,	Bentonville.
Ellis, Henri Bruce, Premed.,	Winston-Salem.
Epstein, Leonard, Spec. Com.,	Goldsboro.
Ervin, Delmar William, Premed.,	Newton.
Falls, William Frank, Premed.,	Salisbury.
Fields, Leonard Earl, Premed.,	Kinston.
Fleming, Ralph Long, Premed.,	Greenville.

Folger, Paul Bernays, Premed.,	Dobson.
Fowler, Louis McCargo, Premed.,	Greensboro.
Frazier, John Wesley, Jr., Premed.,	Badin.
Gay, Robert Bennett, Premed.,	Gumberry.
Goley, Willard Coe, Premed.,	Graham.
Grady, Edgar Norwood, Premed.,	Seven Springs.
Grant, Percy Granville, Spec. Com.,	Snead's Ferry.
Green, Myron, Spec.,	Marshville.
Grigg, John Richard, Premed.,	Gastonia
Groome, George Monroe, Premed.,	Greensboro.
Gunter, Truss Bostic, Premed.,	Sanford.
Gurley, Hubert Taylor, Premed.,	High Point.
Hair, Joseph Eugene, Spec.,	Lena.
Hall, Gordon Cozart, Premed.,	Portsmouth, Va.
Halsey, Leonard Kaney, Premed.,	Piney Creek.
Harper, Marion Dixon, Premed.,	LaGrange.
Harrell, Beemer Clifford, Spec. Com., A.B., 1917.	Marshville.
Harrell, William Horace, Premed.,	Mamie.
Harris, Robert Spencer, Premed.,	Winterville.
Harris, Willie Thomas, Premed.,	Mount Gilead.
Heath, Forest Gage, Premed.,	Statesville.
Henderlite, John Warren, Premed.,	Raleigh.
Hester, William Shepherd, Premed.,	Reidsville.
Higdon, Lyman Clayton, Premed.,	Franklin.
Hill, Theodore David, Spec. Com.,	Lexington.
Hoffner, Benjamin Ivey, Spec.,	Salisbury.
Hogan, Kenneth Page, Spec.,	Winston-Salem.
Holland, Alma, Spec.,	Fayetteville.
Howard, Corbett Etheridge, Premed.,	Pink Hill.
Hudson, Oliver Wendell, Spec. Com.,	Chapel Hill.
Hughes, John Gray, Premed.,	Sanford.
Hutchins, John Manning, Premed.,	Winston-Salem.
Hutchinson, Joseph Franklin, Premed.,	Roberdel.
Ingram, Laurance Munsey, Spec.,	High Point.
Jackson, Walter Ira, Premed.,	Orange.
James, Robert Ervin, Jr., Spec. Com.,	Darlington, S. C.
Jarman, Forest Ruel, Premed.,	Seven Springs.
Johnson, Earl, Spec.,	Raleigh.
Johnson, Emmett Carlton, Premed.,	Cedar Creek.
Johnson, James Duncan, Premed.,	Atkinson.
Johnson, Addie Louise, Premed.,	Mebane.
Jones, Thaddeus Elmore, Premed.,	Kenansville.
Jordan, Roy Patton, Spec.,	Asheville.

Keever, James Woodfin, Premed., Hickory.
Keith, Alton Rodney, Premed., Atkinson.
Keith, Judson Ellis, Premed., North Side.
Kellum, Eugene LeRoy, Premed., Norfolk, Va.
Kelly, Herbert Thomas, Premed., Fayetteville.
Kenney, Augustus S. Merrimon. Spec. Com., Salisbury.
Kimberly, David, Jr., Premed., Asheville.
King, Frank Charles, Premed., Brevard.
Kiser, Henry Lester, Spec., Bessemer City.
Knight, Ben Halsey, Premed., Roper.
Landreth, Cam Hobert, Premed., Stratford.
Lasley, James Mecum, Premed., Walnut Cove.
Laughinghouse, Charles O'Hagan, Jr., Premed., Greenville.
Leggett, Robert Alexander, Spec. Com., Wadesboro.
Lennon, Willie Earle, Premed., Manteo.
Leonard, Homer Hartsell, Premed., Marshville.
Little, Ichabod Mayo, Spec. Com., Robersonville.
Little, Lonnie Marcus, Premed., Statesville.
Livengood, Baxter Alphonso, Premed., Winston-Salem.
Long, Joseph Kindred, Premed., Seaboard.
Love, James Wilbert, Premed., Raleigh.
Lynn, Clabe Webster, Premed., Raleigh.
Lynn, Jerome Worth, Premed., Raleigh.
McBrayer, Reuben Allen, Premed., Shelby.
McCall, Zebulon Archibald, Spec. Com., Elrod.
B.S., 1919, N. C. State College of Agriculture and Engineering.
McCarthy, Eleanor Barbour, Spec., Richmond, Va.
McDonald, Henry Clarence, Premed., Hamlet.
McGee, Julian Murrell, Premed., Rosemary.
McLeod, John Blount, Spec., Lumberton.
McMichael, James Gorrell, Premed., Wentworth.
McWhorter, Euclid Howe, Premed., Chapel Hill.
Maddry, Joseph Thomas, Premed., Seaboard.
Manning, George Dewey, Premed., Bethel.
Massey, William Joseph, Jr., Premed., Princeton.
Matheson, Robert Arthur, Jr., Premed., Raeford.
Matthews, Stanley Edison, Premed., Turkey.
Mattox, George Edgar, Premed., Stantonsburg.
Miller, James Bennett, Spec., China Grove.
Misenheimer, Ed Alexander, Premed., Concord.
Mitchell, Thomas Brice, Premed., Shelby.
Morris, Cecil Owen, Premed., Atlantic.
Noblin, Ray Lee, Premed., Nelson, Va.
Norburn, Martha Elizabeth, Spec., Acton.

Norburn, Russell Lee, Premed.,	Acton.
Norfleet, Ashley Curtis, Premed.,	Tarboro.
Overcash, William Earle, Premed.,	Statesville.
Parks, Walter Batty, Premed.,	Huntersville.
Parrish, Curtis Stephen, Spec.,	Salisbury.
Patterson, Fred Marion, Premed.,	Concord.
Pearson, Nae Hugh, Premed.,	Fairmont.
Perry, Frank Leslie, Premed.,	Louisburg.
Phillips, Branson DeWitt, Premed.,	State Road.
Pipes, Edward Jerome, Spec.,	Hickory.
Quillin, Ernest William, Premed.,	Spencer.
Ranson, William Earl, Spec.,	Hunterville.
Rhodes, Benjamin Franklin, Premed.,	Riverdale.
Riggins, Hazel McLeod, Premed.,	Matthews.
Roberts, Bennett Watson, Premed.,	Gatesville.
Rohleder, Eugene Carlyle, Spec.,	Charlotte.
Rouse, Noah, Premed.,	LaGrange.
Sasser, Kirby Cleveland, Premed.,	Kenly.
Sasser, Ray Monroe, Premed.,	Goldsboro.
Savage, Carl Preston, Premed.,	Rose Hill.
Sawyer, Blackwell, Premed.,	Elizabeth City.
Scott, George Randolph, Spec. Com.,	Charlotte.
Scott, McDonald, Premed.,	Aurora.
Scruggs, William Joseph, Premed.,	Brevard.
Shaw, William Tolman, Elect. Law,	Raleigh.
Sherrill, Edward Gilmer, Jr., Spec. Com.,	Greensboro.
Sherrill, Hubert Rankin, Premed.,	Sherrill's Ford.
Shine, Claudia Pearsall, Spec.,	Chapel Hill.
Shirley, Ernest Raeford, Premed.,	Snow Hill.
Shuford, Hilton McKay, Premed.,	Hickory.
Sloan, Allen Barry, Premed.,	Charlotte.
Smith, Sidney Silas, Premed.,	Fremont.
Smoot, James Clinton, Jr., Spec.,	North Wilkesboro.
Stainback, William Lee, Jr., Spec.,	Greensboro.
Stone, Millard Benton, Premed.,	Kittrell.
Strickland, Norman Rupert, Premed.,	Middlesex.
Sumner, Emmett Ashworth, Premed.,	Randleman.
Sumner, Howard Leon, Premed.,	West Asheville.
Tenney, Edwin Wright, Spec.,	Chapel Hill.
Teu, Sanfjord Brogden, Premed.,	Godwin.
Thornton, Emmett Leonel, Premed.,	Mebane.
Toms, Charles French, Jr., Spec.,	Asheville.
Upchurch, Wade Hampton, Premed.,	Apex.
Usher, Joseph Thames, Premed.,	Chadbourn.

Waddell, Robert Lee, Premed.,	Scottville.
Weaver, Harold Johnson, Premed.,	Olin.
White, Charles Sterling, Premed.,	Stovall.
Whitehurst, Roland Luther, Premed.,	Rocky Mount.
Widenhouse, Martin Aubrey, Premed.,	Concord.
Williams, Harold Thomas, Spec.,	Hickory.
Williams, Robert Mack, Spec. Com.,	Greensboro.
Williams, William K. Alston, Premed.,	Louisburg.
Williamson, Arthur, Premed.,	Salemburg.
Wilmoth, Richard Grady, Premed.,	State Road.
Wilson, Odie Leon, Premed.,	Kinston.
Winstead, John Lindsay, Premed.,	Elm City.
Wiseman, Perry Haynes, Premed.,	Henrietta.
Wood, Thomas Badham, Spec. Com.,	Edenton.
Wrenn, Earl Reid, Premed.,	Siler City.
Young, Roy William, Premed.,	Angier.
Youngblood, Samuel McDowell, Premed.,	York, S. C.

Students in Law

Allen, William Marion, First,	Elkin.
Allen, William Reynold, Jr., First, A.B., 1917.	Goldsboro.
Baggett, Jesse Venon, Second, A.B., 1918.	Salemburg.
Baker, Hugh Daniel, Jr., Special,	Rocky Mount.
Barden, Graham Arthur, Second,	Burgaw.
Bass, Nathan Roscoe, First,	Lucama.
Bell, Coy Brevard, Special,	Troy.
Bivens, Jay, Special,	Aquadale.
Bond, Lyn, First,	Edenton.
Boney, Daniel Clinton, Special,	Kinston.
Bowman, Frederick Oscar, Second,	Cranberry.
Bradford, Marian D. Stuart, First,	Wilmington, Del.
Bradshaw, Lacy Black, Special,	Graham.
Branch, William Vernon, Special,	Fairmont.
Brantley, Dwight, First,	Spring Hope.
Brantley, Hobart, First,	Spring Hope.
Brewer, Henry Emmett, Jr., First,	Rocky Mount.
Bridges, Edwin Breathed, Second,	Charlotte.
Brittain, John Moore, First,	Ashboro.
Brooks, Isaac Ernul, First,	New Bern.
Bueck, Hieronymus, First,	Spencer.
Carlyle, Fred Ertel, First,	Lumberton.

Clement, Louis Heyl, Jr., Second, Salisbury.
Cohn, Frederick Jacob, Second, Goldsboro.
Coleman, James Millar, Second, Asheville.
Collie, William Yarborough, First, Raleigh.
Cooper, Thomas Duncan, First, Graham.
Cummings, Alfred Ben, First, Winston-Salem.
A.B., 1915.
Cumpiano, Césare Augusto, First, San German, P. R.
Currie, Ernest McArthur, First, Fayetteville.
Dalton, John Webber, First, Forest City.
Daniel, Charles Rufus, Second, Weldon.
A.B., 1916.
Denning, Lewis Knox, Special, Dunn.
Dortch, Hugh, First, Goldsboro.
Edmundson, Paul Burt, First, Goldsboro.
Edwards, Charles Henry, First, Bentonville.
Edwards, Enos Tyler, Special, Polkton.
Fagge, Harry Lee, First, Leaksville.
Feimster, Walter Connor, Jr., First, Newton.
A.B. 1919.
Fleetwood, Ashley Randolph, First, Hertford.
Folger, Fred, First, Mount Airy.
Foster, John Wesley, First, Mocksville.
A.B., 1919.
Foushee, William Horace, Jr., Special, Greensboro.
Hale, Ellis Scott, First, Mount Airy.
Harris, William Durham, First, Sanford.
A.B., 1916, William and Mary College.
Harvey, Wiley Frank, First, Littleton.
Hatcher, Matthew James, First, Mount Olive.
A.B., 1918.
Hawfield, Robert Roy, First, Matthews.
Hennesee, William Edwards, First, Salisbury.
Hicks, Jasper Benjamin, First, Henderson.
Hill, John Bright, Second, Warsaw.
A.B., 1917.
Hodges, Daniel Merritt, Jr., First, Asheville.
Holding, Clem Bolton, First, Neuse.
Howell, James Spears Second, Asheville.
Isear, David Wesley, First, Wilson.
Jarman, Lawrence Wooten, First, Seven Springs.
Jernigan, Mack Murphy, First, Dunn.
Johnson, Samuel David, Special, Angier.
Jones, Hines Arthur, Second, Greensboro.
Kennedy, James Connor, First, Moltonville.
A.B., 1918.

King, Albert Hill, First, Burlington.
A.B., 1905.
King, George Watts, Second, Charlotte.
Knowles, Wiley Bryant, First, Wallace.
Leatherwood, Dennis Bryan, Second, Waynesville.
Liipfert, Benjamin Bailey, First, Winston-Salem.
Lisk, Merrell Cerdell, First, Mount Gilead.
Little, Bryce, First, Marshville.
Llewellyn, Clement Manly, First, Dobson.
Lucas, Silas Rowe, Special, Wilson.
McCall, Zebulon Archibald, First, Elrod.
B.S., 1919, N. C. State College of Agriculture and Engineering.
McCullen, Samuel David, Second, Goldsboro.
McKenzie, Frances Elizabeth, Second, Asheville.
McKnight, Charles Allen, First, Greensboro.
McMillan, Zebulon Vance, Second, Red Springs.
McNeill, Kenneth, First Fayetteville.
Matthews, William Elmer, First, Clinton.
Miles, Forrest Glenwood, First, Warrenton.
A.B. 1919.
Millikan, Benjamin Franklin, Special, Greensboro.
Mims, Frank Alexander, Special, Asheville.
Mitchell, John Gulick, First, Oxford.
Monk, Edwin Irvin, Special, Asheville.
Narron, John Arthur, Special, Laurinburg.
Nichols, Charles Leslie, First, Brevard.
Norfleet, Eric, First, Roxobel.
Norris, John Ernest, First, Holly Springs.
Orr, Frank Wylie, First, Charlotte.
A.B., 1915, Westminster College.
Paylor, John Hill, Second, Laurinburg.
Penny, William Burbank, First, Hendersonville
Perry, Ely Jackson, Second, Kinston.
A.B., 1917.
Pharr, Neal Gates, First, Charlotte.
A.B., 1919, Davidson College.
Pittman, J. Carlton, Second, Gates.
Pritchett, John Albert, First, Rawlings, Va.
Proctor, Edward Knox, First, Lumberton.
A.B., 1917.
Proctor, John Gilliam, First, Lumberton.
Pruden, Sidney Edward, Second, Greensboro.
Rand, Oliver Gray, First, Garner.
A.B., 1917.
Ray, Frank Oliver, Second, Selma.

Rives, Edwin Earle, First, Greensboro.
Robbins, Roswell Brackin, Second, Lexington.
Robertson, George David, First, Asheville.
Robinson, Kathrine McDiarmid, First, Fayetteville.
A.B., 1913, N. C. College for Women.
Scarborough, Dawson Emerson, First, Hoffman.
Sessoms, Carl Burt, First, Colerain.
Shaw, Duncan, First, Fayetteville.
A.B., 1916, Davidson College.
Shaw, William Tolman, First, Raleigh.
Sledge, William Whitfield, First, Weldon.
Stanley, Harry Ruffin, Marion, Ill.
Stevens, Henry David, First, Asheville.
Stringfield, Peyton Randolph, Second, Atkinson.
Teague, Lewis Everett, Special, High Point.
Tomlin, Perry Clarke, First, Asheville.
Topping, Daniel Dewey, First, Pantego.
Uzzle, Thomas Marshall, First, Wilson.
B.A., 1918, Wake Forest College.
VonCanon, Charles Herman, Jr., First, Spencer.
Walker, Harvey Harrison, Special, New Castle.
Weathers, Bynum Edgar, Second, Shelby.
Whitener, Stewart Carlyle, First, Hickory.
Whitmire, Robert Lee, First, Hendersonville.
Wilson, Horace Reginald, First, Rose Hill.
Wilson, John Nestor, Jr., First, Greensboro.
Wimberley, George Lewis, First, Rocky Mount.
Womble, William Brantley, First, Cary.
Worthington, Samuel Otis, First, Winterville.
Wright, William Cullen, Jr., First, Winston-Salem.
Yelverton, William Bayard, First, Goldsboro.
Younce, George Alexander, First, Spencer.
A.B., 1919.
Young, James Robert, First, Dunn.

Students in Summer School of Law

Alexander, Louise Brevard, Greensboro.
Austin, William Bryant, Laurel Springs.
A.B.-LL.B., 1919.
Best, Lee James, Dunn.
A.B., 1919, Trinity College.
Boney, Norwood Bruce, Wallace.
Boseman, Claude Alfred, Enfield.
A.B., 1915.

Bryant, Victor Silas, Jr., Durham.
A.B., 1918.
Camp, Zebulon C., Washington, D. C.
Candler, William Washington, Candler.
Carr, Leo, Teachey.
A.B., 1918.
Cohn, Frederick Jacob, Goldsboro.
Daniel, Charles Rufus, Weldon.
A.B., 1916.
Denny, Emery Byrd, Salisbury.
Emry, Opal I. Tillman, Weldon.
M.A., 1906, Ohio State University; LL.B., 1919.
Ervin, Samuel James, Jr., Morganton.
A.B., 1917.
Gaston, Harley Black, Lowell.
Hanna, Hugh Oliver, Gifford, S. C.
A.B., 1915, A.M., 1916, University of S. C.
Hatcher, Matthew James, Mount Olive.
A.B., 1918.
Hudson, Hinton Gardner, Smithfield.
A.B., 1916. LL.B., 1919, Harvard University.
Hyatt, Carl Britt, Burnsville.
A.B., 1917.
Johnston, Ira Thomas, Jefferson.
Litaker, Henry David, Lincolnton.
Lucas, Silas Rowe, Wilson.
McIver, Duncan Evander, Sanford.
Mann, Elmo, Middletown.
Newman, Harris Philip, Wilmington.
LL.B., 1919.
Oettinger, Albert, Wilson.
A.B.-LL.B., 1919.
Palmer, Madeline Elizabeth, Charlotte.
Peele, Elbert Sidney, Williamston.
A.B., 1914.
Pegg, Herbert Dale, Guilford College.
A.B. and LL.B., 1915, Wake Forest College.
Pless, James William, Jr., Marion.
Pruden, William Dossey, Edenton.
A.B., 1915.
Robbins, Roswell Brackin, Lexington.
Royster, Beverly Sampson, Jr., Oxford.
A.B., 1916, LL.B., 1917.
Stratford, Willie May, Charlotte.
B.P., 1914, N. C. College for Women.
Stringfield, Peyton Randolph, Atkinson.
Taylor, James Alexander, Oxford.

Umstead, William Bradley, Bahama.
A.B., 1916.
Vestal, Rufus M., Greensboro.
LL.B., 1916, Hamilton College of Law.
Walser, Donald Adderton, Lexington.
Woltz, Claude Bernard, Dobson.
A.B., 1915.
Yates, Grover Cleveland, Chadbourn.

Students in Medicine

Anderson, Alan Ramseur, First, Statesville.
A.B., 1915, A.M., 1916, Trinity College.
Babbitt, Elizabeth H. Clark, First, New Bern.
Bizzell, Marcus Edward, Jr., Second, Goldsboro.
Boone, William Waldo, First, Durham.
Bradsher, James Sidney, Jr., First, Oxford.
A.B.,1917, Trinity College.
Brewer, Thomas Clayton, Second, Marshville.
Brinn, Thomas Preston, First, Hertford.
A.B., 1919.
Byerly, Wesley Grimes, First, Cooleemee.
Caldwell, Daniel Greenlee, Jr., First, Concord.
Chappell, Leslie Edward, Second, Candor.
Clark, Ernest Walton, Jr., Second, Belhaven.
Clark, Harold Stevens, Second, Leicester.
Clarke, Francis Mann, Second, Middletown.
Cole, Stephen Ruffin, First, Chapel Hill.
Crisp, Sellers Mark, First, Falkland.
B.S., 1916, M.A., 1917, Davidson College.
Crowell, Gordon Bryan, Second, Lincolnton.
A.B., 1917.
Eley, Verndon Lyndon, Second, Woodland.
Elliot, George Douglass, First, Thornwall.
Fritz, Herbert Huit, First, Hickory.
A.B., 1919, Lenoir College.
Goodwin, Oscar Sexton, First, Apex.
Hambrick, Robert Theodore, First, Roxboro.
A.B., 1919, Trinity College.
Harden, Robert Norman, Second, Commerce, Ga.
Harrington, Cary Lanier, Second, Greenville.
A.B., 1919.
Herman, Charles Bernard, First, Conover.
A.B., 1919, Lenoir College.
Hughes, Samuel Edwin, Second, Danville, Va.
Johnston, Ralph Lynwood, First, Salisbury.

Ketchie, James Meredith, Second,	Salisbury.
Llorens, Fernando, First,	Santiago, Cuba.
Markham, Blackwell, Second,	Durham.
A. B., 1917, A.M., 1918.	
Mason, Manly, First,	Atlantic.
Massey, Charles Caswell, First,	Princeton.
Merritt, Zeran Lewis, First,	Belton.
A.B., 1919, Trinity College.	
Monroe, Clement Rosenburg, First,	Biscoe.
Moore, Robert Ashe, First,	Statesville.
B.S., 1918, College of Charleston.	
Morris, Carlyle, Second,	New Bern.
A.B., 1916.	
Murray, Robert Lebby, First,	St. Pauls.
B.S., 1917, Davidson.	
Newcomb, Andrew Purejoy, Second,	Henderson.
Norment, William Blount, Second,	Trinity.
Norris, Samuel Royall, Second,	Jacksonville, Fla.
Parker, George Farrar, First,	Asheville.
A.B., 1917.	
Payne, Franklin Limer, Second,	Raleigh.
Poston, James Lewis, Second,	Statesville.
Ramsay, James Graham, Second,	Salisbury.
A.B., 1917.	
Richardson, George Alexander, First,	Dover.
Rose, David Jennings, Second,	Bentonville.
Ross, Robert Alexander, Second,	Morganton.
Saleeby, Eli Richard, Second,	Wilson.
Schenck, Samuel Moore, First,	Lawndale.
Shaw, John Alexander, First,	Fayetteville.
B.S., 1918, Davidson College.	
Smith, Annie Thompson, Second,	Durham.
A.B., 1917, A.M., 1918, Trinity College.	
Smith, Randall Collins, First,	Newport.
Smith, Robert Edwin, First,	Mount Airy.
Sumner, George Herbert, First,	Franklinville.
Swift, Vance Everett, First,	Badin.
Tayloe, Joshua, First	Washington.
Tayloe, John Cotten, Second,	Washington.
Terry, John Skally, Second,	Rockingham.
A.B., 1918.	
Toy, Calvert Rogers, First,	Chapel Hill.
Tyler, Earl Runyon, Second,	Durham.
Vann, Fannie Ellen, First,	Clinton.
A.B., 1915, A.M., 1919, Trinity College.	

White, Carl Wilma, First,	Danville, Va.
Whitehead, Edward Morris, First,	Salisbury.
Wimberley, Benjamin Bunn, First,	Rocky Mount.
Yoder, Paul Allison, First,	Newton.
A.B. 1916, Lenoir College.	

Students in Pharmacy

Adams, Charles Wyatt, First,	Rowland.
Beddingfield, Charles David, First,	Wakefield.
Bizzell, Henry Lee, Spec.,	Kinston.
Bradley, Earl Landrum, Spec.,	Old Fort.
Cain, Leighton Dewey, Spec.,	Fayetteville.
Carwile, James Leander, First,	Autreville, S. C.
Cline, Fred Herman, Spec.,	Kannapolis.
Cobb, James Louis, First,	Mount Olive.
Coleman, James Joseph, First,	Greensboro.
Cooper, Gypson Aycock, First,	Salemburg.
Crutchfield, Thomas Garrett, Spec.,	Washington.
Davis, Clifford Vernon, Spec.,	Southport.
Dawson, Thomas Pugh, Second,	Norfolk, Va.
Dees, Robert E. Lee, Spec.,	Rose Hill.
Edwards, Otho Crowell, Spec.,	Raleigh.
Etheridge, Thomas Jarvis, Jr., Spec.,	Washington.
Ferrell, Wessie Conway, Spec.,	Nashville.
Foltz, Dorothy Eleanor, Second,	Winston-Salem.
Gibson, Allison McLaurin, First,	Gibson.
Gross, Lester Earl, Spec.,	Burlington.
Hackney, John Mallory, First,	Durham.
Harrell, John Sherwood, First,	Windsor.
Harrell, John William, Jr., Spec.,	Beaufort.
Hawfield, Clayton, First,	Matthews.
Hocutt, Delma Desmond, Second,	Hillsboro.
Horton, John Palmer, Second,	North Wilkesboro.
Hutchinson, Earl Bennett, Spec.,	Roberdel.
Jacobs, Marion Lee, Second,	Morrisville.
Johnson, William Randel, Spec.,	Dunn.
Kirby, Guy Smith, Second,	Marion.
Kirkpatrick, John Cyrus, First,	Pilot Mountain.
Layton, Clifton Charles, First,	Sanford.
Lea, Vernon Duncan, Second,	East Durham.
Lewis, Charles Abraham, Spec.,	Winston-Salem.
Lisk, Richard Earle, Spec.,	Charlotte.
Lloyd, Thomas Philip, Spec.,	Chapel Hill.
Lytch, John Milton, Spec.,	Rowland.

Melvin, Perry Jenkins, Second,	Roseboro.
Mills, John Crayton, Second,	Rutherfordton.
Morris, Alonzo Fields, First,	Troy.
Phillips, Millard Brown, Second,	Concord.
Pierce, James Stanley, Spec.,	Rocky Mount.
Privett, Avon, First,	Wakefield.
Pugh, Edward Stewart, First,	Windsor.
Reaves, Roy, First,	Raeford.
Robbins, Holleman Harris, First,	Raleigh.
Royal, Fred D., First,	Salemburg.
Siske, Grady Cornell, First,	Beaufort.
Smith, Paul Olsen, Spec.,	Allen, S. C.
Stone, Wilbert Lawrence, Second,	Kittrell.
Thomas, Benjamin Jasper, Spec.,	Wendell.
Twitty, Theo Bryan, Spec.,	Rutherfordton.
Vaughn, Dewey Ordway, Spec.,	High Point.
Walker, Harry Wilbur, Second,	Norlina.
Walker, Irving, Spec.,	Reidsville.
Ward, Waits Artemus, First,	Spencer.
Warren, Thel Whitfield, First	Newton Grove.
Williams, Clayton Gerald, Spec.,	Cooper.
Womble, David Jackson, First,	Cary.

SUMMER SCHOOL STUDENTS, 1919

Graduate and Undergraduate Students

Aibara, Kazuo,	Nagapsuta, Japan
A.B., 1917, Waseda University.	
Albright, Annie,	Waynesville.
B.E., 1915, North Carolina College for Women.	
Alcorn, Bessie Louise,	Ruffin.
Alexander, Clayton Brown,	Matthews.
Allen, Sallie,	Warrenton.
Allen, Sidney Broaddus,	Weldon.
Allison, Ruth Rebecca,	Webster.
Anderson, William Banks,	Haw River.
Armstrong, Mrs. Charles Brower,	Denver.
A.B., 1913, Lenoir College.	
Arnold, Della,	Hamptonville.
Arnold, George Basil,	Westminster.
Aycock, Manalcus Douglas,	Black Creek.
Aydlett, Wyatt Rudolph,	Harbinger.
Babbs, Josiah Smith,	Hertford.
Barnhardt, Mrs. Agnes Barringer.	Hallsboro.
Barrington, Meta,	Raleigh.
A.B., 1916, Atlantic Christian College.	
Baxley, Mary Jessie,	Gibson.
Beavers, Sallie Louise,	Durham.
A.B., 1908, Trinity College.	
Bell, Allen Jefferson,	Brasstown.
Bennett, Elisha Keen,	Gretna, Va.
Benthall, Elsie Irene,	Woodland.
Bernau, Rudolph Carl , Jr.,	Greensboro.
Biggers, Boyce Laban,	Unionville.
A.B., 1918, Lincoln Memorial University.	
Bizzell, Marcus Edward,	Goldsboro.
Black, Elizabeth McDonald,	Concord.
Blount, William Augustus,	Washington.
Boddie, Leah,	Durham.
Boling, Roy Wingate,	Morrisville.
A.B., 1919.	
Booe, Phil Henry,	Walkertown.
Boone, Edward Lawrence,	Rich Square.
Bourne, Katherine Wimberley,	Tarboro.

Bowen, Joseph Francis, Greenville.
Boyce, Burney, Gastonia.
Boyd, Norwood Mariam, Warrenton.
Brawley, Clara Elizabeth, Gastonia.
Brawley, Thomas Johnson, Gastonia.
Brewer, Henry Emmett, Jr., Rocky Mount.
Brewer, Thomas Clayton, Marshville.
Brite, Mattie, Elizabeth City.
Brock, Sarah Lee, Richlands.
A.B., 1917, Greensboro College for Women.
Browne, Joseph Malcolm, Kelford.
Brown, Paul High, Chadbourn.
Calvert, Elizabeth Alston, Raleigh.
Camp, Cordelia, Chapel Hill.
Capps, James Arthur, Bessemer City.
A.B., 1919.
Carroll, Duncan McColl, Bennettsville, S. C.
Carson, Robert Edward Lee, Bethel.
Carter, Emerson Leroy, Burnsville.
Carter, Henry Clay, III, Washington.
Caviness, Myrtle, New Port.
A.B., 1918, Greensboro College for Women.
Chappell, Leslie Edward, Candor.
Cherry, Julia Mabel, Lilesville.
Clark, Ernest Walton, Jr., Belhaven.
Clark, Harold Stevens, Leicester.
A.B., 1917.
Clarke, Francis M., Middletown.
Clarke, Jennie Mann, Middletown.
Clegg, Agnes Marie, Guilford College.
A.B., 1918, Guilford College.
Cobb, Lucy Maria, Greensboro.
Coble, Josephine Vestal, Liberty.
Cole, Stephen Ruffin, Chapel Hill.
Coleman, Elizabeth Edmunds, Winston-Salem.
Coltrane, Eugene Jarvis, Jamestown.
A.B., 1907, Guilford College.
Cone, Benjamin, Greensboro.
Cook, Mildred Dawson, Erlanger.
Grad., 1903, Virginia State Normal School.
Cooper, David Alexander, Henderson.
Cordon, Edward Broad, Waynesboro, Va.
Counts, Donie, Laurens, S. C.
Cozart, Same Rogers, Stem.
Craig, Raymond Lee, Greenwood, Miss.

Crawford, George Dewey,	Cornelia, Ga.
Currier, Louis William,	Athens, Tenn.
A.B., 1916, Carson and Newman College.	
Daniel, Donald Snead,	Weldon.
Darden, Douglas Beaman,	Wilson.
A.B., 1916.	
Davidson, George Chamness,	Henderson.
A.B., 1904, Elon College.	
Davis, Charles Walker,	Hillsboro.
A.B., 1919.	
Davis, Harry Towles,	Beaufort.
A.B., 1919.	
Denning, Erdene Beatrice,	Albemarle.
Dixon, Bessie Gray,	Elm City.
Dixon, Thelma Louise,	Hookerton.
A.B., 1918, Greensboro College for Women.	
Dobbins, Annie Pearle,	Yadkinville.
Doggett, Howard Hugh,	Caroleen.
Dosier, Mary Beatrice,	Randleman.
Duncan, Elliott Florence,	Mayodan.
A.B., 1918.	
Dunn, James Allan,	Charlotte.
Eaton, Mrs. Florence Harding,	Mocksville.
B.S., 1903, Guilford College.	
Efird, Laura Christine,	China Grove.
Ellen, Lucy Hilliard,	Battleboro.
Ellerbe, Elizabeth Terry,	Rockingham.
Ellington, John Oglethorpe, Jr.,	Clayton.
Ervin, Dorothy Olwin,	Newton.
Erwin, Jesse Harper, Jr.,	West Durham.
Etheridge, Ida,	Kenly.
Evans, Erasmus Hervey,	Laurinburg.
Fels, Joseph,	Reidsville.
Fields, Daniel Allen,	Laurinburg.
Flowers, Albert Haynes,	Palmetto, Fla.
Folger, Fred	Mount Airy.
Fox, Norman Allbright,	Guilford College.
Freeman, Rachael,	Dobson.
Garner, Callie,	Waynesville.
Garriss, Henry Thomas,	Margarettsville.
Gibson, Thelma,	Laurinburg.
Girardeau, Jennie Lennerton,	Charleston, S. C.
Goforth, Emeline Boone,	Lenoir.
Goforth, Frances Willard,	Lenoir.
Gooch, Oley Presler,	Chapel Hill.

Goodson, Gladys,	Marion.
Grady, Edgar Norwood,	Seven Springs.
Graham, Amy Bell,	Godwin.
Gresham, Lillie Ursula,	Beulaville.
Haltiwanger, Robert Sidney,	Chapel Hill.
B.S., 1914, Davidson College.	
Hancock, Robert Kelly,	Gloucester.
A.B., 1915, Elon College.	
Harper, Arita Marie,	Durham.
A.B., 1919, Trinity College.	
Harper, Helen Earle,	Baltimore, Md.
Harrell, Rena Chambers,	McColl, S. C.
A.B., 1912, Queens College.	
Harrell, William Horace,	Mamie.
Harris, Dorothy Lee,	Henderson.
Harris, Willard Watts,	Henderson.
Hatcher, John Thomas,	Calypso.
A.B., 1914.	
Hatcher, Lena,	Brim.
B.L.,1913, Woman's College of Richmond, Va.	
Heafner, Connie Louise,	Crouse.
Heffner, Ray Lorenzo,	Maiden.
Henderson, Grace,	Monroe.
Hendren, Joseph Flanner, Jr.,	Elkin.
Herring, Mary Ellen,	Clinton.
Hines, Edward McKinnon,	Rowland.
Hines, Edgar Thurman,	McLeansville.
A.B., 1911, Elon College.	
Hinshaw, Clifford Reginald,	Gatesville.
A.B., 1916, Guilford College.	
Holland, Alma,	Chapel Hill.
Hollingsworth, Jesse Gentry,	Mount Airy.
Holt, Daniel Cicero,	Elm City.
A.B., 1913, Lenoir College.	
Honeycutt, Allison William,	Hendersonville.
A.B., 1902, Wake Forest College.	
Honeycutt, Gilbert Mansfield,	Chapel Hill.
Horne, William Henry, Jr.,	Rocky Mount.
Hoy, Helen Louise,	Charlotte, Va.
Hoyle, Columbus Alonzo,	Fallston.
Huff, Herbert Henry,	Soudan, Va.
A.B., 1917.	
Hughes, Adeline Edmonds,	Henderson.
Hughes, Samuel Edwin, Jr.,	Danville, Va.
Humphries, Veola,	Lattimore.
Hunter, Essie Dale,	Holly Springs.

Husketh, Sadie Junius, Bethel.
A.B., 1907, Wake Forest College.
Ives, Bessie, Bayboro.
Ivy, Bessie Florence, Norwood.
Jackson, Venie, Cooper.
Jackson, Walter Ira, Salemburg.
James, Gertrude, Portland, Ore.
B.A., 1889, Wellesley College.
Jenkins, Sadie Franklin, Nashville.
Jennings, Eula, Elizabeth City.
Jernigan, Herman, Benson.
A.B., 1916.
Jernigan, Mack Murphy, Dunn.
Johnson, Basil Howard, Enfield.
A.B., 1913, Wake Forest College.
Johnson, Elias Dodson, St. Pauls.
B.S., 1913, Wake Forest College.
Johnston, Louise, Mebane.
Jones, Margaret, Oxford.
Jones, Robert DuVal, Jr., New Bern.
Kellum, Isaac James, Sneed's Ferry.
A.B., 1915, Elon College.
Kelly, Bernice Christiana, Clayton.
Kent, Anne Olivia. Lenoir.
A.B., 1916, Meredith College.
Ketchie, James Meredith, Salisbury.
Kita, Saichiro, Tokyo, Japan.
B.A., 1916, Waseda University.
Knight, Benj. H., Roper.
Knowles, Wiley Bryant, Wallace.
LaFar, Mary Robertson, Gastonia.
Latshaw, Harry Franklin, Chapel Hill.
Latshaw, Mrs. Harry Franklin, Chapel Hill.
Leake, Russell Ingram, Rich Square.
Ledbetter, Ida Belle, Dome.
A.B., 1915, Meredith College.
Ledforth, Robert Newton, Hot Springs.
Lee, Edith May, Greenville.
Leighton, Andrew Franklin, Scotland Neck.
Lentz, Ada, Gold Hill.
B.S., 1914, North Carolina College for Women.
Lentz, Glenna Dale, Gold Hill.
Lewis, Margaret May, Scotland Neck.
A.B., 1904, Meredith College.
Lewis, Warner Meriwether, Durham.
Lindau, Miriam Charlotte, Greensboro.

Lindsay, Mattie Bright, Lilesville.
A.B., 1914, Limestone College.
Livermore, Mary H., Thomasville.
A.B., 1905, Adelphi College.
Llorens, Fernando, Santiago, Cuba.
London, William L., Pittsboro.
Long, Rebecca Gatling, Jackson.
Lowrance, Annie Laurie, Catawba.
Lyon, Janie, Windsor.
McClain, Sarah Rebekah, Rutherfordton.
McDowell, Archibald, Jr., Scotland Neck.
McIntyre, Marjorie, Maxton.
MacKay, Eunice Stacy, Dunn.
B.L., 1901, Flora Macdonald College.
McKnight, Thomas Mortimer, Mooresville
McLean, Mary, St. Pauls.
MacLeod, Margaret, Vass.
MacLeod, Mary Ida, Vass.
McMahan, William Hampton, Cana.
A.B., 1914, Trinity College.
McPherson, Elizabeth Gregory, Shiloh.
A.B., 1914, Oxford College.
McRae, James Patterson, Laurinburg.
Mann, George Weaver, Chapel Hill.
Marsh, George Alexis, Jr., Charlotte.
Martin, Florence, Mocksville.
A.B., 1910, Salem College.
Martin, Frank, Hickory.
Martin, Leo DeWitt, Suffolk, Va.
A.B., 1919, Elon College.
Massenburg, James Speed, Louisburg.
Massey, Charles Caswell, Princeton.
Massey, Minnie Jean, Waxhaw.
Melvin, Bertha, Greensboro.
Mercer, Armistead Lilly, Wilmington.
Merritt, Eglantine Clara, Roxboro.
Merritt, Eddy Schmidt, New Bern.
A.B., 1919.
Michael, Martha Pearle, Kernersville.
Michael, Ruby Gladys, Kernersville.
Miller, Herbert Craig, Hickory.
Millsaps, Vera Euanna, Statesville.
B.S., 1915, North Carolina College for Women.
Moore, Agnes, Pinetops.
Moore, Bertha, Fork.
Moore, Hannah Edna, Warsaw.

Moore, Mamie,	Conetoe.
Moorman, Robert, Jr.	Columbia, S. C.
Morehouse, Andrew Richmond,	Oakwoods.
A.B., 1918, Amherst College.	
Morris, Carlyle,	New Bern.
Morris, George Dillon,	Goldsboro.
Morris, Lillian,	New Bern.
Moseley, Robert Franklin,	Clinton.
Moses, Mildred,	Chapel Hill.
Moye, Henrietta Louise,	Farmville.
Murray, John Lowe,	Durham.
A.B., 1918, Trinity College.	
Muse, Nellie K.,	High Point.
Newmark, Herman Albert,	New Bern.
B.S., 1913, Rutgers College.	
Nims, Horace,	Mount Holly.
Nixon, Mary Louise,	Hertford.
Noblin, Roy Lee,	Nelson, Va.
Norment, William Blount,	Trinity.
Norris, Samuel Royall,	Jacksonville, Fla
Parker, Irvin Ferdinand,	Bradentown, Fla.
A.B., 1919.	
Parker, John Merrel,	Bradentown, Fla.
A.B., 1916.	
Parker, Mary Georgia,	Murfreesboro.
Patterson, Howard Alexander,	Chapel Hill.
Peace, Mrs. William Leak,	Oxford.
Peel, James Claudius,	Elon College.
A.B., 1915, Elon College.	
Pegg, Herbert Dale,	Guilford College.
A.B., LL.B., 1915, Wake Forest College.	
Peirson, Annie Simpson,	Enfield.
Perry, Frank Leslie,	Louisburg.
Phillips, Rupert Andrew,	Macclesfield.
Phipps, Luther James,	Chapel Hill.
Pickard, Minna Thelma,	Chapel Hill.
A.B., 1917.	
Pickard, Nell Abbie Patterson,	Chapel Hill.
Pickens, Wiley Miller,	Morganton.
A.B., 1916, Trinity College.	
Pigg, Nannie Ellen,	Madison.
A.B., Meredith College.	
Poag, James Davis,	Greenville, S. C.
Poindexter, Will Nelson, Jr.,	Walkertown.
Pollock, Philip Basil,	Trenton.
Poole, Sarah Eugenia,	Greensboro.

Poore, Mary Emma, Detroit, Mich.
Prescott, Marion Butler, Aurora.
Priest, Perry Davis, Chapel Hill.
Prince, William Marshall, Laurinburg.
Pritchard, Josephine, Chapel Hill.
Pritchard, Mary, Chapel Hill.
A.B., 1905, Elon College.
Pritchard, Vera, Chapel Hill.
Pritchard, William Grady, Chapel Hill.
Proctor, Robert Wright, Lumberton.
Fruden, Lina Tucker, Edenton.
Puett, Artelee King, Dallas.
Puett, Juanita Pegram, Dallas.
Pulliam, Bessie Maynard, Roxboro.
Ramsey, Chapman Lucas, Gretna, Va.
Randolph, Mary Isabel, Charlotte.
Ranes, Arthur, Raleigh.
B.A., 1908, Wake Forest College.
Raper, Joseph Fitzgerald, Linwood.
Register, Mattie Elma, Seagrove.
A.B., 1918, Greensboro College for Women.
Rhodes, Guy Blaisdell, Columbia.
Rhyne, Jennings Jefferson, Bessemer City.
A.B., 1919.
Rives, Gladys, Edgefield, S. C.
Roberson, Nellie, Chapel Hill
Roberts, Bryan N., Hillsboro.
Rose, David Jennings, Bentonville.
Rose, Junious Julian, Garysburg.
Rose, Jessie May, Wallace.
Ross, Robert Alexander, Morganton.
Rountree, Moses, Oxford.
Rouse, Noah, LaGrange.
Royal, Charlie Nixon, Salemburg.
Royal, Donnie Martin, Salemburg.
Sasser, Kirby Cleveland, Kenly.
Sawyer, George G. L., Gastonia.
A.B., 1915, Lenoir College.
Shields, John Montgomery, Enfield.
A.B., 1911.
Shine, Lou Sullivan, Chapel Hill.
Shore, Evelyn, Rocky Mount.
Shore, Rossie Steelman, Yadkinville.
Shuford, Hilton McKay, Hickory.
Simms, Benjamin Arnold, Talladega, Ala.

Simpson, Henry Belk, Matthews.
Simpson, Ida C., Burlington.
Sipe, Bryan Webb, Cherryville.
Slaughter, Grace Stanley, Goldsboro.
A.B., 1919, Randolph-Macon Woman's College.
Smith, Luther Stevens, Troy.
Smith, Robert Edwin, Mount Airy.
Smith, Robert Owen, Liberty.
Smith, Samuel Clement, Guilford College.
A.B., 1918, Guilford College.
Snyder, Ethel Marionette, Wingate.
Spaugh, Rufus Arthur, Winston-Salem.
Spencer, Rebert Baxter, Chapel Hill.
Spruill, Corydon Perry, Jr., Raleigh.
Spry, Fletcher Humphries, Back Bay, Va.
Staley, Abram Wills, Greensboro.
Stanley, Jesse Betts, Guilford College.
A.B., 1918, Haverford College.
Stanley, Leah Ellen, Guilford College.
A.B., 1918, Guilford College.
Stanley, Ruth Rebecca, Guilford College.
A.B., 1918, Guilford College.
Stanton, Verna, Franklinton.
Stine, Glenn Ralph, Newton.
Stone, Marvin Lee, Kittrell.
Story, Thomas Edgar, Lenoir.
A.B., 1913.
Strudwick, Clement Read, Hillsboro.
Sumner, Emmett Ashworth, Randleman.
Sykes, Grace Lowrance, Woodland.
Tabor, Margaret, Morganton.
Tack, Mrs. Katharine, M. W., Chapel Hill.
Tate, Mabel Brooke, Old Fort.
Tayloe, Josh, Washington.
Tayloe, John Cotton, Washington.
Tenny, Edwin Wright, Chapel Hill.
Thom, Evelyn, China Grove.
Thomas, Katie, Jonesboro.
Thomas, Sanford, Greensboro.
Thomson, Fannie Della, Wilmington.
Thomson, Lucille, Wilmington.
Thorp, Isaac Davenport, Rocky Mount.
Toy, Calvert Rogers, Chapel Hill.
Travis, Richard Stanford, Jr., Weldon.
Trexler, Zebulon Baxter, China Grove.

Tyler, Earl Runyon,	West Point, Va.
Vann, Dorothy McDowell,	Raleigh.
Venable, Frances Preston,	Chapel Hill.
Venable, Louise Manning,	Chapel Hill.
Ward, Linnie Marie,	Greensboro.
A. B., 1913, Greensboro College for Women.	
Warrick, Luby Albert,	Goldsboro.
Watanabe, Chotaro,	Hakadate, Japan.
A.B., 1918, Waseda University.	
Weatherly, Carl Holmes,	Kernersville.
B.S., 1905, Davidson College.	
Weaver, Mary Sue,	Waynesville.
Wells, Frank Lowrance,	Cullowhee.
Whitener, Russell Winfield,	Hickory.
A.B., 1917, Catawba College.	
Wilkinson, George Wimberley,	Rocky Mount.
Wilkinson, Louise,	Rocky Mount.
Williams, Calvin,	Chadbourn.
Williams, Mrs. Henry Horace,	Chapel Hill.
Williamson, James Saunders,	Burlington.
Wilson, Charles Rea,	Jackson Springs.
Wilson, William Clarence,	Camden.
Wiseman, Perry Haynes,	Henrietta.
Womble, David Jackson,	Cary.
Womble, William Brantley,	Cary.
Woodburn, Mary Edna,	Wadesboro.
Woody, Annie Gladys,	Durham.
York, William Marvin,	High Point.
A.B., 1918.	
Young, Ina Vivian,	East Durham.
A.B., 1917, Trinity College.	

Normal and Preparatory Students

(Institute attendants marked with asterisk *)

Abernethy, William Borden,	Chapel Hill.
Aderholt, Bessie Ruth,	Catawba.
Alexander, Marguerite,	Huntersville.
Alexander, Virgie Elizabeth,	Liberty.
*Alexander, Violet Jane,	Huntersville.
Allred, G. Lawrence,	Greensboro.
Angel, Nina Lee,	Boonville.
Ashcraft, Mrs. Frederick William,	Marshville.
Aydlett, Lessie Mae,	Poplar Branch.
Badham, Emma Hudgins,	Edenton.

Baggett, Ethel,	Dunn.
Ballou, William Bransford,	Oxford.
*Barbee, Fred Quentin,	Robersonville.
Barbee, Nettie M.,	Durham.
Barber, May Audrey,	Reidsville.
Barclay, Sallie Irvine,	Tillery.
Barnwell, Mary Harrison,	Thomasville.
Barringer, Margie Delette,	Mount Pleasant.
Bass, Corneva,	Dunn.
Bass, Vida Willard,	Clinton.
Beam, Ruth Evelyn,	Shelby.
Benson, Sallie Howard,	Nashville.
Best, Carrie Elizabeth,	Edward.
Blackwood, Mattie Emeline,	University.
Blades, Melick West,	Elizabeth City.
Bond, Wita Avis,	Windsor.
Bonitz, Florence Louise,	Wilmington.
Boren, Helen Gould,	Pomona.
Bostick, Josephine Cozart,	Laurinburg.
Bowers, Martha Elizabeth,	Littleton.
Bowman, Joseph Orlando,	Garland.
Boyd, John Creelman,	Charlotte.
Bradsher, Eugenia,	Durham.
Brantley, Charles,	Spring Hope.
Bridger, Mrs. Thomas Hines,	Lewiston.
Britt, Ada Florence,	Biscoe.
Britt, Frances Dovie,	Lumberton.
Britt, Margaret,	Lumberton.
Britt, Martha Hunta,	Conetoe.
Brock, Mary,	Richlands.
Brockwell, Alice,	Elizabeth City.
Broom, Sue Council,	Morehead City.
Brothers, Lucy,	La Grange.
Brower, Snoda Emily,	Liberty.
Brown, Charlotte,	Hillsboro.
Brown, Clara Will,	Biscoe.
Brown, Ethel Lerlene,	Wendell.
Brown, Mrs. Frances Gudger,	Asheville.
Brown, Janie Peele,	Woodland.
Brown, Lena Christian,	Biscoe.
Brown, Laura Thomas,	Hallsboro.
Browning, Nell,	Hillsboro.
Bryan, Jean,	Chapel Hill.
Bryan, Kathryn,	Carthage.

Bryan, Pauline Elizabeth,	Newton Grove.
Buchanan, Agnes Lynn,	Laurinburg.
Buice, Louise,	Chapel Hill.
Burt, Mabel P.,	Buie's Creek.
Butt, William Harold,	Bonnerton.
Byrd, Ruby Dell,	Cardenas.
Caldwell, Zelah,	Jonesboro.
Cameron, Angus Blue,	Carthage.
Carawan, Lizzie,	Roper.
Carter, Margaret Virginia,	Laurinburg.
Carter, Mamie Kate,	Carter's Mills.
Carter, Ruth Emma,	Henderson.
*Carwile, Stanmore Watson,	McColl, S. C.
Cherry, Ernestine Albritton,	Scotland Neck.
Cilley, John H. P.,	Hickory.
*Clark, Ruth Haines,	Weldon.
*Clarke, Mrs. Eumeda.	Middletown.
Clayton, Marian Elizabeth,	Laurinburg.
Clegg, Annie Thompson,	Carthage.
Clement, Helen,	Oxford.
Coffey, Gladys,	Morganton.
Cole, Cora Bell,	White Oak.
Cole, George Thomas,	Chapel Oak.
Collins, Addison Boyce,	Peachland.
Collins, Inda Grey,	Holly Springs.
Coltrane, Mrs. Eugene Jarvis,	Jamestown.
Condrey, Kate Lucile,	Enfield.
Connelly, Eloise,	Godwin.
Cook, Ellen Pearl,	Mooresville.
Cooke, Lula Mae,	Godwin.
Cooper, Mary,	China Grove.
Corbett, James Edward,	Macclesfield.
Cornwell, Nora Lorena,	Shelby.
Costen, Lucy Seawell,	Gatesville.
Council, Evelyn Gertrude,	White Oak.
Council, Mary Douglas,	White Oak.
Covington, Mattie Marie,	Laurinburg.
Covington, Mrs. Thomas Jefferson,	Trinity.
*Craig, William G.,	Blackwood.
*Crawford, Mrs. Annie York,	Mebane.
Crawford, Civa Belle,	Hillsboro.
Creasy, William Bullock,	Wilmington.
Crews, Martha Eugenia,	Dabney.
Crist, Margaret Marie,	Winston-Salem.

Crofton, Helen Frances,	Robersonville.
Crowder, Aline,	Peachland.
Crowell, Nina Ella,	Lincolnton.
Crutchfield, Mabel,	Liberty.
Currie, Katharine Gladys,	Fayetteville.
Currin, Alva Lee,	Oxford.
Curtis, Margaret Allene,	Greensboro.
Cutler, Eva Rae,	Washington.
Dabbs, Ruth Williams,	Lilesville.
Darke, Ethel Belle,	Siler City.
Davis, Elise,	Waxhaw.
Davis, Martha Elizabeth,	Columbia, S. C.
*Deal, Lina Grey,	Statesville.
Deans, Bertha Russell,	Gatesville.
Dellinger, Agnes Mae,	Lincolnton.
Dellinger, Eva,	Iron Station.
Dellinger, Lena Dora,	Lincolnton.
Dickerson, Mrs. James Howard,	Rougemont.
Dillon, Henry Rudolph,	Greensboro.
Dinglehoef, Esther,	Lenior.
Dixon, Blanche,	Elkin.
Dixon, Viola,	Elm City.
Donkle, Maria Dorothy,	Wilmington.
*Doub, Henry Ward,	Aberdeen.
Doub, Ola,	Tobaccoville.
Douglas, Mittie Gertrude,	Bath.
Doxey, Mildred,	Poplar Branch.
*Draughan, Lilian,	Dunn.
Dula, Mrs. Eliza Williams,	Lenoir.
Dunn, Minnie Kittrell,	Enfield.
Edwards, Barbara Owen,	Rocky Mount.
Edwards, Blanche Richard,	Henderson.
Edwards, Hattie Nora,	Thomasville.
*Edwards, Lottie C.,	Kittrell.
Egerton, Kathleen,	Louisburg.
Eley, Pauline Jewell,	Woodland.
Elliot, Eugenia,	Lattimore.
Elliott, Maude Lillia,	Garden City.
Ellis, Mildred Conrad,	Henderson.
*Epps, Luther Macon,	Mount Airy.
Epstein, Henry George,	Goldsboro.
Epstein, Joseph Niles,	Rocky Mount.
Epstein, Leon Niles,	Rocky Mount.
Ervin, Christine Giles,	Newton.

Eubank, Evelyn,	Holly Ridge.
Evans, Gladys,	Grandy.
Everett, James LeGrand, Jr.,	Rockingham.
*Farlow, Newton Fernando,	Sophia.
Farrior, Marsden Lee,	Rose Hill.
*Freezor, John Gilmer,	High Rock.
Feimster, Mrs. Fannie Vanstory,	Oxford.
Ferrell, Mrs. Luna Wilson,	Rougemont.
Fish, Susie Frances,	Willow Springs.
Fleming, Leona,	China Grove.
*Fleming, Mrs. William Henry,	Henderson.
Fore, Clarice,	Roxobel.
Fore, Mary Janet,	Roxobel.
Foscue, Ethlyn,	Maysville.
Foster, Anne Lou,	Selma.
Foster, Mary Ophelia,	Selma.
Fox, Elizabeth Pirie,	Henderson.
Frazier, Flossie Laura,	Claremont.
Frazier, Grace,	Oxford.
Frye, Leon Frank,	Caroleen.
Furman, Kate Eugene,	Louisburg.
Futrell, Anna Belle,	Henderson.
Gaither, Grace,	Newton.
Gallop, Alice Ida,	Jarvisburg.
Garlick, Edna,	Henderson.
Garren, Mrs. Gardner Marion,	Raleigh.
Garrett, Florence,	Price.
Garrison, Minnie Lola,	Mebane.
Gattis, Annie,	Chapel Hill.
Geitner, Jacob Shuford,	Hickory.
Gibbs, Pattie Ida,	Reidsville.
Gibbs, Paul,	Hendersonville.
Gibson, Nettie,	Gibson.
Gilbert, Bertha Tucker,	Beaufort.
Gillis, Effie Evelyn,	Biscoe.
Glenn, Effie Gladys,	Rougemont.
Gooch, Ruth,	Oxford.
Gorham, Emma Lyons,	Falkland.
Graham, Ethel Irene,	Dunn.
Grandy, Bernice Willie,	Grandy.
Gray, Carrie Berie,	Timberlake.
Gray, Elizabeth Camille,	Charlotte.
Gray, Minnie Faith,	High Point.
Greenlee, Mary Margaret,	Old Fort.

Gregory, Hannah Kirk,	Virgilina, Va.
Grice, Dora,	Shelby.
Griffin, Mittie Isabelle,	Chapel Hill.
Grigg, Flossie,	Shelby.
Griggs, Annie Maude,	Point Harbor.
Griggs, Blanche,	Poplar Branch.
Griggs, Eunice Sunshine,	Morven.
Griggs, Mary Fannie,	Morven.
*Guthrie, Guy Moore,	Swan Quater.
Gwynn, Permelia C.,	Yanceyville.
Hampton, George Coggin,	Chapel Hill.
Hampton, William Walker,	Chapel Hill.
Hardison, Lillian Belle,	Williamston.
Hardison, Nell May,	Kenly.
Hardy, Mae,	Snow Hill.
Hargrove, Etta,	Dunn.
Hargrove, Homer,	Dunn.
Harper, David Sidney, Jr.,	Bethel.
Harrell, Mrs. Bettie Moore,	Williamston.
Harrell, Sarah Moore,	Williamston.
Harrelson, Marie,	Waco.
Harris, Everett Jones,	Englehard.
Harris, Jessie Page,	Henderson.
Harris, Maude Lee,	Oakboro.
Harrison, Dorothy Curtis,	Enfield.
Harry, Nelle,	Harrisburg.
Hatcher, Mrs. John Thomas,	Calypso.
Hayes, Mrs. William Graham,	New Bern.
*Hayworth, Lela Hannah,	Asheboro.
*Heath, John Winford,	Harmony.
Heath, Norma,	Charlotte.
Hedgepeth, Mrs. Joseph Claude,	Greensboro.
Henderson, Mary Curtis,	Chapel Hill.
Herrick, Howard Jay, Jr.,	Williamston.
Herring, Alta Ferl,	Clinton.
Herring, Irma Prudence,	Clinton.
Hester, Eula,	Hurdle Mills.
Hines, Nellie Elizabeth,	Pelham.
Hodges, Hattie Kennedy,	La Grange.
Hodges, Kathleen,	Washington.
Hodgin, Jabez Newlin,	Greensboro.
Holshouser, Anna,	Salisbury.
Holt, Mattie Blanche,	Holly Springs.
Hopkins, Kate,	Brown Summit.

Hornaday, Bernice.	Maxton.
Hough, William Stephen,	Murphy.
House, David Thurston,	Bethel.
Howard, Carrie Lee,	Sanford.
Howard, Frances Hunter,	Pomona.
Howell, Annie Reynolds,	Peachland.
Hudson, Tennie,	Dunn.
Hunt, Lucille Elizabeth,	Oxford.
Hunter, Mary,	Brinkleyville.
Huntley, Nannie Flax,	Wadesboro.
Hurst, Lillian Louise,	Brevard.
*Hurt, Alfred Burman,	Nathan's Creek.
Hutchins, Blanche Olmeta,	Durham.
*Idol, Eugene Donald,	Pleasant Garden.
*Iseley, Margaret,	Burlington.
Isley, Callie Eunice,	Burlington.
Jackson, Eutha,	Cooper.
Jackson, Katherine,	Dardens.
Jackson, Leonidas,	Cooper.
Jackson, Olivia Lois,	Cooper.
Jeffries, Snow,	Memphis, Tenn.
*Jennings, Minuard Pritchard,	Elizabeth City.
Jerome, Eunice,	Kenly.
Johnson, Alexander Spencer,	Greensboro.
Johnson, Nettie,	Sanford.
Jones, Dorothy Collins,	Henderson.
*Jones, Ellen Carolyn,	Hillsboro.
Jones, Gertrude Bowling,	Stem.
Jones, Lily Nelson,	Durham.
Jordan, Katie Alma,	Bladenboro.
Jordan, Mary Rebekah,	Bladenboro.
Joslin, Mrs. Muriel Imogene,	Canton.
Joyce, Adah,	Stoneville.
Joyce, Mary,	Stoneville.
Joyce, Minnie Lee,	Stoneville.
Kearns, Lyde,	Riley's Store.
Kelly, Claudia,	Chapel Hill.
Kelly, Mary Elma,	Sanford.
Kendrick, Linnie,	Cherryville.
Kennedy, Fannie,	Beulaville.
Kennedy, Mary Elizabeth,	Liberty.
*Kennedy, Mrs. Virginia,	Millboro, Va.
Killian, Mary Bertha,	Lincolnton.
*King, Edelweiss,	Wilmington.

Kirkpatrick, Helen,	Charlotte.
Kiser, Lucy,	King's' Mountain.
Kiser, Osie Maie,	Bessemer City.
Knight, Madeline,	Durham.
Knight, Odessa Blanche,	Stokesdale.
*Knott, Betty Frances,	Oxford.
Knott, Pearl,	Oxford.
Koonce, Alex. Hamilton, Jr.,	Chapel Hill.
Koonce, Grace Doswell,	Chapel Hill.
Koonce, Lucille,	Kinston.
Lamb, John Cotten, Jr.,	Wilson.
Landon, Susan,	Clinton.
Langston, Katherine Evelyne,	Speed.
Latta, Huldah Gail,	Oxford.
Laughlin, Bessie,	Rowland.
Lavender, John Lee,	Old Fort.
*Leach, Nannie Elizabeth,	Cary.
Leak, James Pickett,	Rockingham.
Ledbetter, Hazel,	Chapel Hill.
Lee, Esther Ellen,	Dunn.
Leighton, Mrs. Andrew Franklin,	ScotlandNeck.
Leonard, Lorene,	Catawba.
Lindley, Ruth,	Guilford College.
Lindley, Thomas Ozroe,	Snow Camp.
Livermon, Mattie,	Roxobel.
Livingstone, Nancy Meldona,	Grover.
Lloyd, Bettie,	Chapel Hill.
*Loftin, Maria Davis,	Warsaw.
Long, Clara Belle,	Louisburg.
Long, Ella Naomi,	Chapel Hill.
Long, Fannie Ted,	Southmont.
Long, Jesse Melvin,	Clarendon.
Long, Olga,	Mebane.
Long, Ruth Virginia,	Chapel Hill.
Lossen, Alba Teresa,	Wilmington.
Lowrance, Willie Lois,	Taylorsville.
Lowry, Kate,	Clifton Forge, Va.
Lupton, Ellis Preston,	New Bern.
Lyon, Ollie Ianna,	Lyons.
Lyon, Thomas Christian,	Creedmoor.
McCann, Verna,	Traphill.
McClamrock, James R., Jr.,	Greensboro.
McCombs, Annie Parks,	Charlotte.
McCullum, Marie Jessie,	Summerfield.

MacFadyen, Virginia Hendon,	Waynesville.
McIlwean, Emma Katie,	New Bern.
McInnis, Malcolm Graham,	Bryan, Tex.
McIntyre, Lutie May,	Troy.
McKinney, Lelia Elizabeth,	Brown's Summit.
McKoy, Charlotte Lillian,	Old Fort.
McLean, Vannessa,	Aberdeen.
MacMillan, Henrietta,	Parkton.
McMurry, Lois,	Shelby.
McNeil, Mary,	Cameron.
McNeill, Vivian Atwood,	Lumberton.
Mangum, Bessie,	Stem.
Marley, Katie,	Franklinville.
Marsh, Ellen,	Salisbury.
Martin, Allie Morris,	Fayetteville.
Martin, Bettie,	Biscoe.
Martin, Elsie,	Mayodan.
Martin, Esther Bonnie,	Biscoe.
*Martin, Julian Bowie,	Dunn.
Matthews, Janet,	Winton.
Maxwell, Mary Belle,	Stedman.
*Maynard, Margaret Lillian,	Apex.
*Mendenhall, E. P.,	Morehead City.
Menzel, Lucille,	South Mills.
Meroney, Mary Boyd,	Mocksville.
Merritt, Bessie Lee,	Chapel Hill.
Merritt, Gladys Blanche,	Chapel Hill.
Merritt, James Eric,	Chapel Hill.
Miller, Annie Belle,	Rougemont.
Miller, Annie Ivey,	China Grove.
Miller, Grace,	Richfield.
Miller, Lucy Stowe,	Buxton.
Miller, Nell Blythe,	Winston-Salem.
Miller, Sarah,	Mocksville.
Millis, Lemuel Hardy,	Marines.
Mills, Eva Lucretia,	Tabor.
Mitchell, Lillian,	Speed.
*Mitchell, Lydia,	Aulander.
Moffitt, Madge Fleming,	Ramseur.
Monroe, Eoline,	Sanford.
Monroe, Lois,	Sanford.
Montgomery, Julia Lilly,	Raleigh.
Moore, Cora,	Waynesville.
Moose, Katy Novella,	Badin.

Morgan, Henrietta Marshall,	Pittsboro
Morgan, Horace G.,	Raleigh
Morgan, Martha Moleta,	Caraway.
Morris, Ada Alethia,	Edenton.
Morris, Tula Esta,	Farmer.
*Morrow, Adelaide,	Mebane.
Moseley, Jane Frances,	Snow Hill.
Naul, Bessie,	Putnam.
Naul, Ollie,	Putnam.
Neville, Mrs. Andrew Jackson,	Chapel Hill.
Newby, Jennie Perry,	Durant's Neck.
Nicholls, Alice Winston,	Windsor.
Nichols, Sadie Jones,	Durham.
Nicholson, Myrtle,	Burlington.
Noe, Elizabeth Helen,	Beaufort.
Noe, Minnie,	Beaufort.
Noe, Mabel Dean,	Beaufort.
Norton, Eulalia Clara,	Nichols, S. C.
*Norwood, Ruth Adelaide,	Stovall.
O'Neal, Martha Elvin,	Scranton.
Oakes, Sallye Lee,	Salisbury.
*Oehler, Mrs. Mae Barnes,	Sanford.
Oliver, Ethel Matilda,	Topnot.
Oliver, Lucy Carr,	Topnot.
*Otwell, Addison Grant,	Woodland.
Packard, Sallie Lou,	Shelby.
Parker, Beatrice,	Poplar Branch.
Parrish, Flossie Mae,	Clayton.
Parrish, Lena H.,	Middleburg.
Pass, Lucille,	Roxboro.
Pate, Nancy Ola,	Roseboro.
Patton, Mrs. Donie Rich,	Greensboro.
Patton, Kent Webster,	Greensboro.
Peace, Courtney Ferguson,	Oxford.
Peele, Eva Irene,	Williamston.
Peirson, Isabel,	Enfield.
Pendergraft, Floy,	Chapel Hill.
Pendergraft, Ralph Numa,	Chapel Hill.
Penton, Howard Allen,	Wilmington.
Perkinson, Robert Henry,	Rocky Mount.
Perry, Ethel Clyde,	Kinston.
Petty, Irene Watkins,	Union Level, Va.
Petty, Lola,	Union Level, Va.
Pfaff, Mamie Viola,	Winston-Salem.

Phelps, Jewell,	Hurdle Mills.
*Pickard, Annie,	Chapel Hill.
*Pigg, Clara Mozell,	Madison.
Pittman, Mrs. Joseph Pinkney,	Dunn.
Pollard, Rosa May,	Durham.
Pollard, Sarah Elizabeth,	Farmville.
Pope, Annie Lee,	Dunn.
Powell, Nannie Crump,	Harmony.
Pridgen, Lillie Noel,	Elm City.
Pritchard, Margaret,	Chapel Hill.
Proctor, Marie Davidson,	Denver.
*Proctor, Richard Shirley,	New Bern.
Puckett, Virginia Ramsey,	Smithfield.
Purser, Clara Eudora,	Unionville.
Putnam, Vivian,	Cherryville.
Ratcliffe, Fauline,	Ruby, S. C.
Rea, Mary Estelle,	Gatesville.
Reardon, Novella Herman,	Dunn.
Rhyne, Johnsie Marguerite,	Waco.
Rice, Grace Jewel,	Black Creek.
Rigsbee, Nannie Elizabeth,	Durham.
Rives, Edwin Earle,	Greensboro.
Roberts, Nellie,	Southern Pines.
Robinson, Fannie Louise,	Atlantic.
Rogers, Mattie Belle,	Fayetteville.
Rogers, Vera Virginia,	Roxboro.
Rollins, Eugene Marvin,	Henderson.
Rollins, Eugene Marvin, Jr.,	Henderson.
Rollins, Vance Benton,	Henderson.
Rosenthal, Doris,	New York City.
Ross, Margaret,	Bonnerton.
Rosser, Mayo,	Jonesboro.
Royster, Lucy,	Dabney.
*Rudisill, Jacob Andrew,	Southern Pines.
Russell, Mrs. Lucy Phillips,	Chapel Hill.
Scott, Dolly Pearl,	Lucama.
Scott, Ora,	Ramseur.
Seawell, Myrtle,	Candor.
Sessoms, Margaret Louise,	Ahoskie.
Sharpe, Mattie Louise,	Burlington.
Sherrill, Joe Elliott,	Hickory.
Shield, Mary Peterson,	Windsor.
Shine, Mrs. Lee Johnson,	Chapel Hill.
Shipman, Sara Katharine,	Hendersonville.

Shore, Clyde,	Rocky Mount.
Shuford, Donald Emory,	Hickory.
Simpson, Fannie,	Grandy.
Sisk, Blonn,	Waco.
Skinner, Mrs. Mary Winborne,	Durham.
Sledge, Thomas Haywood.	Rocky Mount.
Smathers, Esther,	Canton.
*Smith, Claud Arthur	High Point.
Smith, Charles Laughinghouse,	Greenville.
Smith, Eva Marie,	Mocksville.
Smith, Fannie,	Grifton.
Smith, Hazel Earle,	Wilmington.
*Smith, Junius Everette,	Chapel Hill.
Smith, Jake McCrackin,	Chapel Hill.
Smith, Laura Campbell,	Mount Olive.
Smith, Mildred,	Statesville.
Smith, Mary Lou,	Hallsboro.
Smith, Ruby Marie,	Ruby, S. C.
*Smith, Samuel Denny,	The Hollow, Va.
Smith, Whittie Jay,	Greenville.
Smoak, Nettie Lowe,	Wilkesboro.
Snipes, Lillian,	Selma.
Southerland, Anne,	Henderson.
Speight, Ellen,	Sunbury.
Spencer, Mrs. Rebert Baxter,	Chapel Hill.
Spiers, Roberta,	Smithfield.
Spivey, Wynona,	Hertford.
Sprinkle, Ethel Gray,	Winston-Salem.
Spurgeon, Mary Emily,	Hillsboro.
Stacy, Nancy McDowell,	Hamlet.
Stafford, Edith Haynes,	Greensboro.
Stem, Pauline,	Stem.
Stephens, Mabel Clair,	Holly Springs.
Stephenson, Anabel,	Smithfield.
Stevens, Elma,	Goldsboro.
Stewart, Lizzie Mabel,	Whitakers.
Stone, Verna May,	Thomasville.
Strickland, Elva,	High Point.
Strickland, Lela,	Dunn.
Strowd, Elizabeth,	Chapel Hill.
Strowd, Mrs. Thomas Wilson,	Chapel Hill.
Sugg, Lucile Elizabeth,	Kinston.
Sullivan, Elsie Virginia,	Rural Hall.
Sumner, Helen,	Salisbury.

Tarkenton, Bessie Viola,	Woodard.
Tarkenton, Hilda Grey,	Woodard.
Tate, Martha Matilda,	Old Fort.
Taylor, Bettie B.,	Rocky Mount.
Taylor, Clara,	Rutherfordton.
Taylor, Ruth Cornelia,	McCullers.
Temple, Beulah,	Dunn.
Templeton, Catherine Estelle,	Holly Springs.
Terrell, Mary Ethel,	Glen Rock Station.
Terry, Carlotta Belle,	Rocky Mount.
Thomas, Caroline Elizabeth,	Columbia.
Thomas, Josephine,	Lenoir.
Thompson, Blanche Newlin,	Canton.
Thompson, Mary Elizabeth,	Chapel Hill.
Tinnin, Mary Irene,	Hillsboro.
Tolar, Julia Mae,	Fayetteville.
Tolar, Pearl,	Fayetteville.
Townsend, Anne Louise,	Lumberton.
Trexler, Mrs. Zebulon Baxter,	China Grove.
Turner, Annie Faye,	Teacheys.
Turner, Margaret Louise,	Danville, Va.
Turner, Mrs. Mattie Paddison,	Burgaw.
Upchurch, Caroline,	Norwood.
Uzzell, Mrs. Alice Jackson.	Mapleville.
Vann, Beulah,	Aulander.
Venters, Kathleen,	Jacksonville.
Vinson, Sadie Walton,	Littleton.
*Walker, Mary Elizabeth,	Graham.
Walker, Nell Louise,	Poplar Branch.
Walker, Mrs. William Harry,	Poplar Branch.
Wall, Rebecca Bennehan,	Hillsboro.
Walter, Dara Borthal,	Kannapolis.
Walton, Sadie Mae,	Jacksonville.
Warriner, Williamette Christina,	Ruffin.
Warrington, Mayme Florence,	New Bern.
*Waters, Fred Monroe,	High Point.
Watson, James Albert,	Rocky Mount.
Weatherly, Mrs. Carl Holmes,	Kernersville.
Webb, James Richard,	Chapel Hill.
Webb, Margaret Louise,	Chapel Hill.
Wells, Blanche,	Elm City.
Wells, Frances Brower,	Teacheys.
Wells, Mrs. Frank Lowrance.	Cullowhee.
Wells, Wilma Dorothy,	Teacheys.

West, John Oliver,	Dunn.
Westbrook, Maude,	Bentonville.
Westbrook, Mary Gertrude,	Newton Grove.
Wheeler, Henry James,	Chapel Hill.
Wheeler, William Couch,	Chapel Hill.
Whisonant, Frances Pauline,	Rock Hill, S. C.
Whitaker, Ruby Cary,	Enfield.
Whitaker, Susie,	Enfield.
White, Mary deLong,	Newton.
Whitesides, Edward John,	Caroleen.
Williams, Bettie Granberry,	Currituck.
Williams, Mrs. Calvin Ursinus,	Chadbourn.
Williams, Grace,	Chadbourn.
Williams, Lena Mae,	Chapel Hill.
Williams, Lloyd Preston,	Pee Dee.
Williford, Ellen Zelma,	Moriah.
*Willis, Ivey,	Norwood.
Wilson, Carrie Brunetta,	Madison.
Wilson, Henriette,	Rural Hall.
Wilson, Margaret,	Shelby.
Wilson, Mary Annie,	Lenoir.
Wilson, Marvin Pickard,	Chapel Hill.
*Wilson, Sarah Mildred,	Madison.
Winfield, Mauney Catherine,	Wadesboro.
Winstead, Myrtle Lois,	Semora.
Woodward, Fannie Victoria,	Warsaw.
Woodward, Lina,	Mocksville.
Woodward, Sallie Anne,	Warsaw.
Yarbrough, Virginia Wright,	Watson.
Yates, Carolyn Ballinger,	Guilford College.
Zimmerman, Addie D.,	Rural Hall.

STUDENTS

Graduate Students			40
Undergraduates:			
Senior Class		100	
Junior Class		150	
Sophomore Class		235	
Freshman Class		410	
Special Students:			
Premedical	151		
Other specials	48		
		199	
			1,094
School of Law:			
Students in Law (Regular Session)	127		
Students in Law (Summer, 1919)	41		
			168
School of Medicine:			
Second Year Students	27		
First Year Students	37		
			64
School of Pharmacy:			
Second Year Students	12		
First Year Students	22		
Special Students	25		
			59
The Summer School (1919):			
College and Graduate Students	352		352
Normal and Preparatory Students	569		
Total Summer School	921		
Total number of Regular Students			1,776
Deduct for names repeated			113
Net Regular Students			1,663
Total number of Normal Students			569
Grand Total			2,232

THE ASSOCIATIONS OF THE ALUMNI

THE GENERAL ASSOCIATION

R. D. W. Connor, *President.*
E. R. Rankin, *Secretary.*

Executive Committee

Walter Murphy, '92; Dr. R. H. Lewis, '70; W. N. Everett, '86;
H. E. Rondthaler, '93; C. W. Tillett, Jr., '09.

The plan of organization adopted by the General Association of the Alumni on June 2, 1911, is as follows:—1. A deliberative body to be known as *The General Assembly of the Alumni of the University of North Carolina,* composed of *delegates* from the Local Associations, to meet yearly on such day of Commencement Week as has been previously arranged. 2. A directing board of fifteen to be known as *The Alumni Council,* elected by the General Assembly, the officers of which board shall be officers of the General Assembly. 3. Local Associations to be known by the names of their respective counties and towns. For a printed form of this constitution in detail application should be made to Mr. William S. Bernard, Chapel Hill, N. C.

Membership in the General Association of the Alumni includes all persons who have matriculated at the University of North Carolina in any department except the Summer School, and all who are or have been officers of the institution.

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